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West Point Lake Postimpoundment Study

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WEST POINT LAKE
POST-IMPOUNDMENT STUDY

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ENVIRONMENTAL PROTECTION AGENCY
REGION IV
SURVEILLANCE AND ANALYSIS DIVISION
ATHENS, GEORGIA
OCTOBER 1976

WEST POINT LAKE

POSTIMPOUNDMENT STUDY

by

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INTRODUCTION

West Point Lake, located approximately 100 miles downstream from Atlanta, Georgia on the Chattahoochee River, was formed by closure of the West Point Dam on October 16, 1974. Prior to the dam's closure, several agencies had expressed concern about potential effects of upstream metropolitan areas on the lake. As a result of this concern, preliminary postimpoundment studies were conducted in the spring, summer, and fall of 1975 by the U. S. Environmental Protection Agency, in cooperation with the Georgia Department of Natural Resources, Environmental Protection Division, and the U. S. Geological Survey, River Quality Assessment of the Upper Chattahoochee River Basin. While the lake's water quality was still in a transitory state and forecasts of the effects of nutrient enrichment would have been premature, other less complex aspects of water quality were determined. A data base, including nutrient concentrations, was also generated for comparison with data generated by future studies.

PURPOSE

The West Point Lake Postimpoundment Study was conducted to meet the following objectives:

A. Determine suitability of lake water quality for:
   1. Recreation,
   2. Municipal and industrial water supply, and
   3. Meeting downstream water quality standards.

B. Determine nutrient levels in the lake and algal growth potential (September and November only).

C. Estimate the relative "trapping efficiency" of the lake for metals and nutrients by determining loadings into and out of the lake.

D. Determine areas that do not meet recreational water quality standards for whole-body contact.

E. Determine the extent of anaerobic conditions during late summer and concentrations of dissolved iron, manganese, and sulfides.

F. Estimate the trophic status of the lake as influenced by high nutrient inputs from the Atlanta metropolitan area and other upstream sources.

AUTHORITY

This study was conducted in accordance with Section 104 (a)(1), (2), and (3) and (b)(2) of Public Law 92-500 in response to a request (at a meeting on June 5, 1974) by the Georgia Environmental Protection Division, Department of Natural Resources (EPD-DNR) and by the Savannah District, Corps of Engineers. They requested that the U. S. Environmental Protection Agency (EPA) investigate the potential water quality problems enumerated in the Preimpoundment Study of West Point Lake, Georgia (prepared by EPA) and assist the state of Georgia in identifying any other potential problem areas.

CONCLUSIONS

The West Point Postimpoundment Study yielded the following conclusions:

(1) Maximum growth responses, indicated by algal growth potential tests (AGPT), occurred in upstream waters with the addition of nitrogen alone. Water from the vicinity of the city of LaGrange water supply intake did not undergo maximum algal growth until both nitrogen and phosphorus were added. Comparison with AGPT on 49 other lakes throughout the nation show West Point Lake's waters to be highly productive.

(2) The models of Vollenweider, Dillon, and Larsen-Mercier, which predict the trophic status of a lake based only on phosphorus, predict that the lake will become highly eutrophic. Even with a 95% reduction in point-source phosphorus loadings from the Atlanta metropolitan area, these models will still classify the lake as "eutrophic" while at the same time causing its characteristics to more closely resemble those of the "mesotrophic" classification.

(3) Acute dissolved iron and manganese problems were experienced by downstream water supply users following impoundment. The severity of these problems was partially alleviated by a portion of the cofferdam (top edge - 50 feet below water surface) which was left in place approximately 375 feet upstream from the turbine penstocks. The penstock releases seem to flow from the 40-50 foot depth (Fig. 1) and not from the bottom. (Downstream iron and manganese concentrations are similar to concentrations at this depth in the lake.)

(4) Comparison of historical temperature data with study findings for incoming and release waters indicates that the lake has not significantly altered the temperature regime of the Chattahoochee River

downstream from the dam. Partial blockage of colder hypolimnetic water by the coffer dam could account for this finding.

(5) Bacteriological quality of both the lake and its discharge waters was good. No problem was foreseen in meeting fecal coliform standards for recreational water quality (200 coliforms per 100 ml).

(6) Analysis of special composite samples collected at two water intakes, one in the lake and one just downstream from the dam, indicate no major problems with pesticides or toxic metals.

(7) On the basis of the data of this study, West Point Lake can be expected to start stratifying at its downstream end by the middle of April and be stratified as far upstream as Station CH-07 by late May. Destratification can be expected to occur by late September.

RECOMMENDATIONS

1. Algal growth potential tests (AGPT) should be performed annually in late summer at Stations CH-14 and CH-07 to further define and monitor factors limiting algal growth potential. Additional AGPT in spring and autumn would also be useful.
2. Further studies are needed to determine the relative effectiveness of upstream nutrient removal on limiting potential nuisance conditions in West Point Lake.
3. A study should be performed to compare the cost effectiveness of pumping surface water to downstream water users with physical-chemical iron and manganese removal at downstream waterworks.
4. For all future impoundments, the Corps of Engineers should make all necessary efforts to meet the appropriate State water quality standards in the discharge waters. If it appears that these efforts will not prevent initial poor water quality releases, the Corps should make all necessary efforts to assure 100% notification of all downstream water users likely to be affected.
5. As an alternative to or in addition to multi-level turbine intakes and artificial destratification equipment, consideration should be given to the effects of upstream coffer dams or baffles on reservoir hydraulics and discharge water quality.

SUMMARY

West Point Lake is located in west central Georgia in a 3,440 square mile watershed. Seventy percent of the watershed is farmland and 30 percent is industrial and residential (largely the metropolitan Atlanta area). The lake covers 29,500 acres at maximum power pool of 635 feet above mean sea level (msl). It is designed to provide hydroelectric power, flood control (to a lake surface elevation of 646.3 feet above msl), water supply, recreation, and navigation. Postimpoundment water quality was determined by two one-week studies in 1975 conducted by EPA personnel in conjunction with both U. S. Geological Survey (USGS) and Georgia EPD-DNR personnel. Additional water quality data resulted from bi-monthly monitoring visits by Georgia EPD-DNR personnel and, at some stations, by USGS and City of Atlanta personnel. Refer to Appendix B-2 for a complete sampling schedule.

EFFECTS OF COFFER DAM

During dam construction, a coffer dam was built to divert the river around the construction site. When construction was completed, the portion of the coffer dam upstream from the powerhouse was not removed (Fig. 1). This section of the coffer dam was left in place to impede the flow of hypolimnetic waters through the penstocks when the lake is stratified.

During the September 1975 intensive study, the upper limit of the hypolimnion (as defined by both temperature and dissolved oxygen concentrations) averaged 38 feet below the surface for the lower portion of the lake. Irregularities in the depth profiles at 45 feet (Fig. 2) show that the coffer dam (approximately 585 feet msl) at the top--50 feet below the surface) is having an effect on flow patterns (Station CH-03 is approximately 900 feet upstream from the coffer dam). Convergence of dissolved

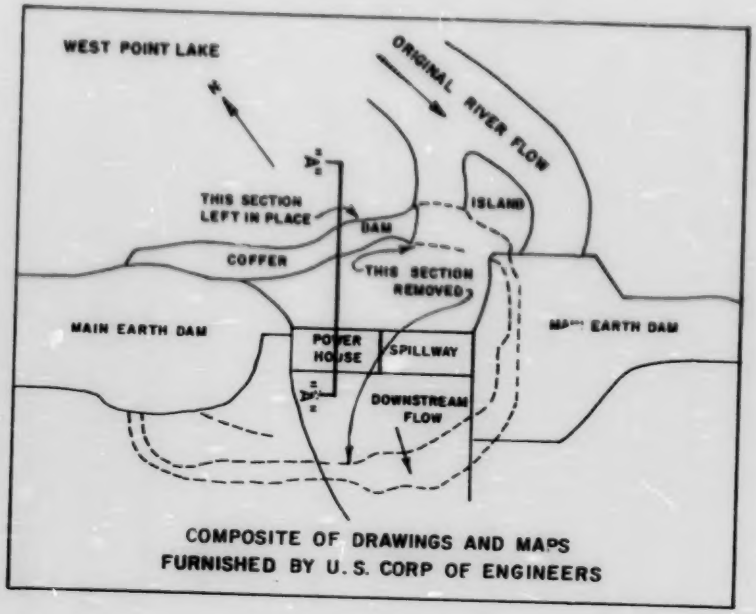
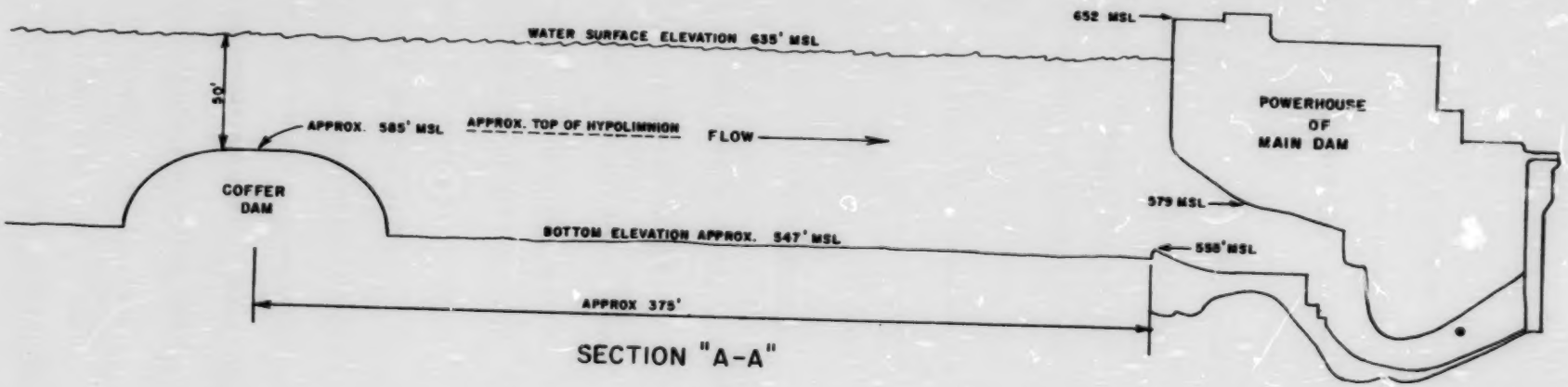


FIG. 1

PLANE AND CROSS-SECTIONAL VIEW OF COFFER DAM AND MAIN DAM (APPROXIMATELY TO SCALE)



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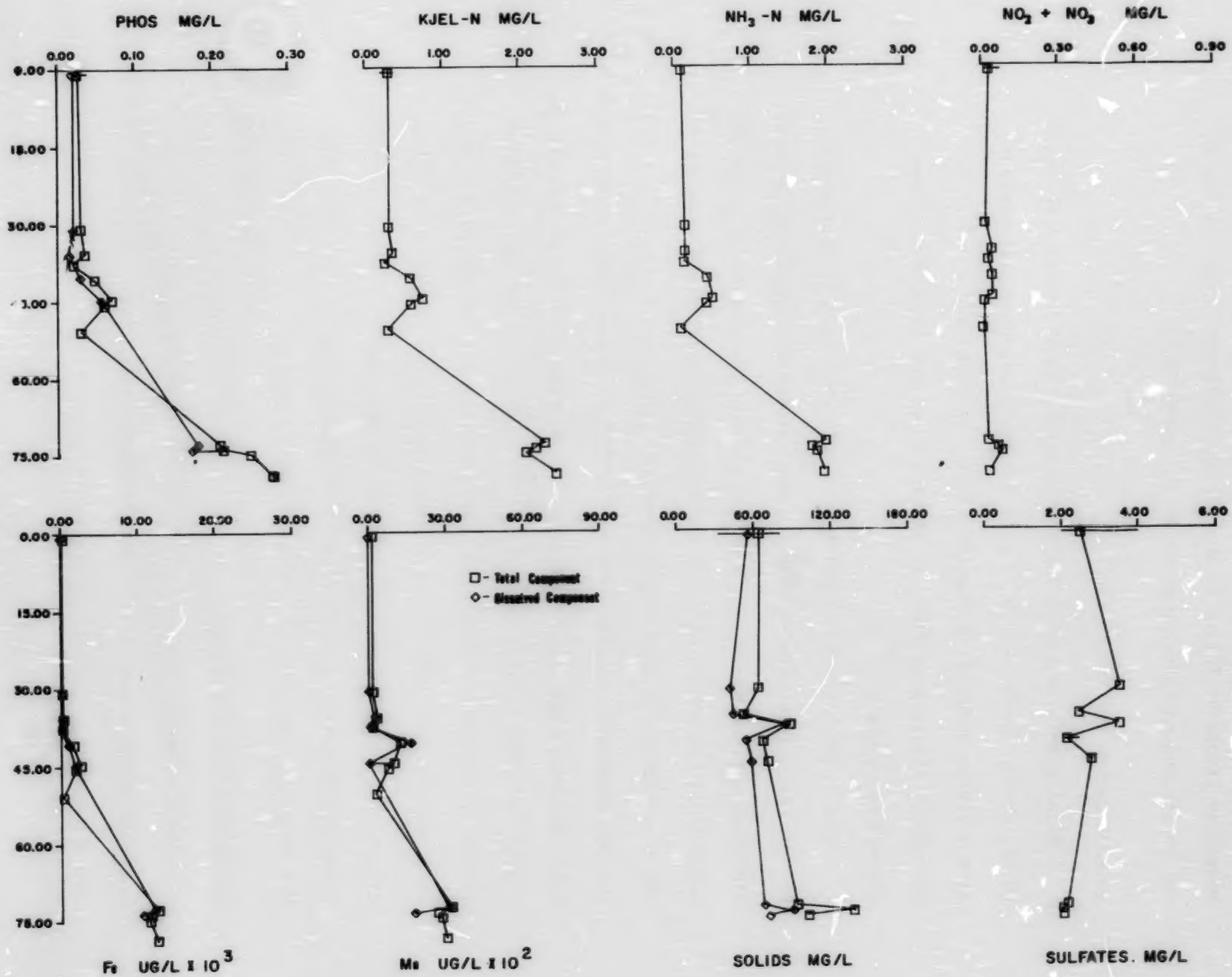


STATION CH-03 SEPT. 1975

DEPTH PROFILES MEAN VALUES

oxygen isopleths (Figs. 9 and 10), iron isopleths (Figs. 19 and 20), manganese isopleths (Figs. 21 and 22) and isotherms (Figs. 11 and 12) can be attributed to the effects of the coffer dam.

EUTROPHICATION POTENTIAL

Algal growth potential tests were conducted at Stations CH-14, CH-07, CH-03, CH-08, and CH-13 with the result showing that maximum growth yields occurred at Station CH-14. Nitrogen was found to be the growth limiting nutrient at Station CH-14 and productivity was classified as high.

West Point Lake was classified as eutrophic by the Vollenweider, Dillon, and Larsen-Mercier models using calculated phosphorus loadings and retention coefficients. When the theoretical phosphorus retention coefficient was substituted for the calculated coefficient, the result was a prediction of more highly eutrophic conditions by the Dillon and the Larsen-Mercier models. The theoretical retention coefficient is the value expected when the lake reaches steady-state conditions and should provide a better estimate of future conditions than the calculated retention coefficient. Even considering 95% phosphorus removal for Atlanta point sources and using the theoretical phosphorus retention coefficient, each of the three models still classified the lake as eutrophic. The classification with reduced phosphorus inputs, however, was near the borderline of the eutrophic and mesotrophic zones.

BACTERIOLOGICAL PARAMETERS

Heavy areawide rainfall (Table 5) during and just before the April intensive study caused extreme runoff conditions. These conditions caused numerous violations of Georgia's fecal coliform standards for

recreational waters. Salmonella were isolated at all stations sampled during April.

From May through October 1975, relatively few violations of the recreation criteria were noted. With the exception of Station CH-14, all fecal coliform densities greater than 200/100 ml occurred on flowing streams. The low fecal coliform densities (well below recreational standards) found in the major portion of the lake during the September study should reflect the bacteriological quality of the lake under normal conditions. No Salmonella were isolated at any station during the September study.

CHEMICAL PARAMETERS

- The Chattahoochee River station (CH-12) in the headwaters of West Point Lake exhibited the greatest pH range (6.0-8.3 units) of all influent waters. Other influent tributary stations had a pH range of 6.3-7.1. The pH range at all deep water stations was considerably greater. Thermal stratification and surface water algal concentrations appeared to contribute to greater pH ranges or fluctuations. Some pH values were less than 6.0 units in the hypolimnion while surface values were greater than pH 8.0. Discharge waters ranged from 5.5 to 6.7 pH units.
- Mean dissolved oxygen (D.O.) concentrations for tributary streams (stations CH-09, CH-11, CH-12, and CH-16) ranged from 8.0 to 8.4 mg/l with extremes of 5.4 and 12.0 mg/l. Station CH-13, on Wehadkee Creek 0.8 miles upstream of its confluence with the Chattahoochee River, had a maximum D.O. of 16.4 mg/l at the lake surface on May 19, 1975. This high value resulted from noticeably high algae concentrations. Nearly all lake stations became stratified during the

hot, dry summer months. Station CH-10 was the farthest upstream station affected by D.O. depletions in the lower depths. Stratification at this station was sporadic between May 20 and September 20, 1975. A short distance upstream from Station CH-10, turbid incoming river water could be seen underrunning clearer lake water. The stratification and turnover of the remaining lake stations is shown below:

Station No.	Start of Stratification	Fall Turnover
Chattahoochee Mainstem		
CH-07	5/20 - 6/10/75	9/18 - 9/19/75
CH-06	5/19 - 6/9/75	9/19 - 9/20/75
CH-05	5/19 - 6/9/75	9/20 - 9/24/75
CH-03	4/18 - 5/19/75	9/20 - 9/24/75
Yellowjacket Arm		
CH-08	Prior to 4/14/75	4/15/75*
	4/18 - 5/20/75	7/20 - 9/24/75
Wehadkee Arm		
CH-13	Prior to 4/14/75	9/25/75

Dissolved oxygen concentrations at Station CH-2.5B (tailrace water at damsite) averaged 4.5 mg/l with a range of 0.5 to 9.2 mg/l. Station CH-01, 2.3 miles downstream from the damsite, had an average D.O. of 5.9 mg/l and a range of 3.2 to 9.6 mg/l.

- The five-day biochemical oxygen demand (BOD_5) at Station CH-12 (headwaters of the lake on the Chattahoochee River) averaged 2.6 mg/l for the entire study period and reached a maximum of 7.0 mg/l. During

*This was not really a "turnover". It was a flushing action caused by heavy rains in the area on 4/14/75.

the winter rainy season (first four months of 1975), the BOD_5 averaged 3.4 mg/l at this station. The averages for tributary waters (Stations CH-09, CH-11, and CH-16) ranged from 1.3 to 1.6 mg/l. In general, BOD_5 (average of all depths) decreased from the headwaters (Station CH-12) to the damsite (Station CH-03) despite frequently occurring values greater than 3.0 mg/l in the hypolimnion of the downstream lake stations. The highest BOD_5 values for the entire study period occurred in the hypolimnion at Station CH-08 (>11.8 mg/l) on Yellowjacket Creek, and Stations CH-13 (>10.8 mg/l) and CH-13A (17.2 mg/l) on Wehadkee Creek. BOD_5 values for the discharge waters at the damsite averaged 1.3 mg/l with a range of 0.6 to 3.2 mg/l.

- Total organic carbon (TOC) reached a maximum of 11.0 mg/l at Station CH-12 following a heavy winter rain. The mean concentration at this station was 4.6 mg/l with a range of 1.2 to 11.0 mg/l. Tributary waters (Stations CH-09, CH-11, and CH-16) averaged 2.9 to 3.4 mg/l. On the main stem of the lake, in upstream to downstream station order, there was a decreasing trend in average values except for a slight increase between Stations CH-07 and CH-06 (confluence with Yellowjacket Creek). There was also an increase in the average at Station CH-03 due to the high values recorded for samples collected near the bottom. Lake discharge waters averaged 2.2 mg/l.
- Maximum input of nitrogen to West Point Lake came from the Chattahoochee River. Average total nitrogen concentration at Station CH-12 was 1.02 mg/l (range, 0.40 to 1.77 mg/l) and

maximum NH_3-N and NO_2+NO_3 concentrations were as high as 0.84 mg/l and 1.18 mg/l, respectively. Total nitrogen concentration in the other tributaries ranged between 0.11 and 0.39 mg/l, while total nitrogen concentrations for the main body of the lake ranged between 0.13 and 3.33 mg/l.

- The Chattahoochee River provided the primary input of both iron and manganese to the lake, with mean concentrations of 3,576 and 797 µg/l, respectively. Of this, 13% of the Fe and 10% of the Mn was in the dissolved form. The three main tributaries to the lake averaged 1,941 µg/l (15% as dissolved component) and 325 µg/l (79% as dissolved component) for mean total Fe and Mn concentrations, respectively. Downstream discharge waters averaged 1,018 µg/l (44% in dissolved form) and 312 µg/l (96% in dissolved form) for total Fe and Mn, respectively.

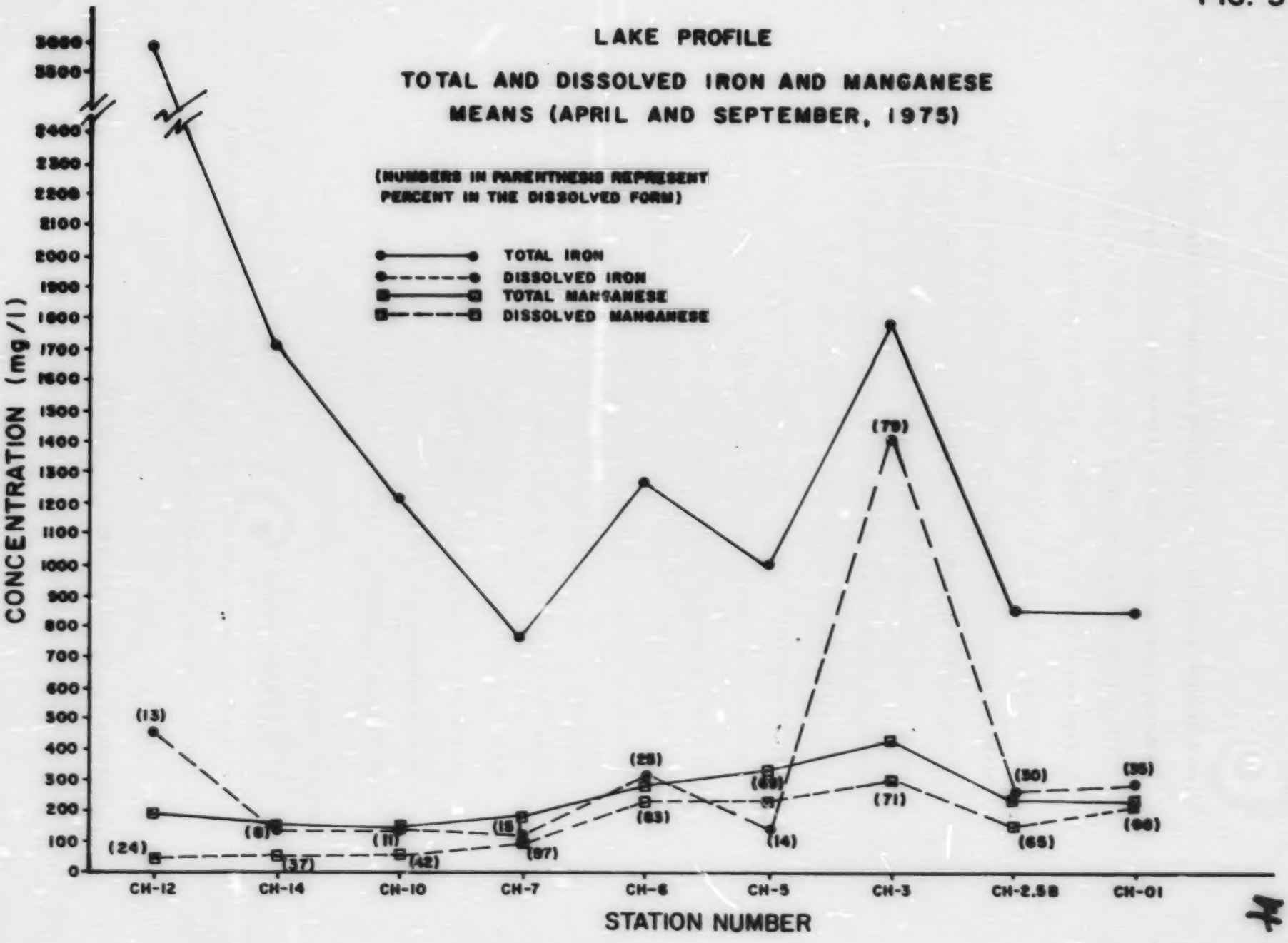
In the following trend summary (Fig. 3), the data from only five days was used (three in April and two in September). These were the only days on which samples for Fe and Mn in both the total and dissolved form were collected from all stations located on the mainstem of the lake. During these five sampling days, the mean concentrations at Station CH-12 for Fe and Mn, respectively, were 3,576 µg/l (13% dissolved) and 195 µg/l (24% dissolved).

Mean total Mn concentrations decreased slightly between Station CH-12 (195 µg/l with 24% in the dissolved form) and CH-10 (130 µg/l with 43% in the dissolved form). The trend from Station CH-10 to CH-03 was a steady increase in both the mean total Mn concentration and the percentage in the dissolved form. These increases

FIG. 3

LAKE PROFILE

TOTAL AND DISSOLVED IRON AND MANGANESE MEANS (APRIL AND SEPTEMBER, 1975)



were brought about by the decreasing hypolimnitic oxygen supply (reducing conditions) in the downstream area of the lake.[1*]

Mean total Fe concentrations exhibited a rapid decrease from Station CH-12 (3,576 µg/l with 13% as the dissolved component) downstream to Station CH-07 (766 µg/l with 15% dissolved). Between Stations CH-07 and CH-06, the mean total Fe concentration nearly doubled to 1,269 µg/l with 25% in the dissolved form. After a slight decrease at Station CH-05 (988 µg/l with 14% in the dissolved state) the mean concentration increased to 1,787 µg/l with 79% in the dissolved form. The rapidly decreasing total Fe concentrations in the upstream portion of the main stem of the lake can be attributed to the following factor: the suspended iron was settling at a rate faster than it could be redissolved by the slightly reducing conditions downstream from Station CH-10. The increase between Stations CH-07 and CH-06 may have been caused by the Fe load contributed by Yellowjacket Creek, which joins the Chattahoochee River between these stations. The increase in mean total Fe concentration at the downstream lake stations was related to actively reducing anaerobic conditions in the hypolimnion. Under anaerobic conditions, dissolution of Fe from the sediment proceeds very rapidly.

PHYSICAL PARAMETERS

- In the summer months, lake water temperature maxima ranged from 25.5°C to 31°C, as opposed to 25°C to 29°C during preimpoundment studies. During the same season, hypolimnion temperatures in the

* References 1 through 16 appear on page 90.

main stem of the lake ranged from 20.5°C to 23°C, while water temperature downstream from the dam ranged from 22°C to 29°C.

- Water color (platinum cobalt color units) in the upper reaches of the lake (areas not affected by stratification) averaged 35-38 units in the Chattahoochee River and 21-51 units in the main tributaries (Yellowjacket Creek, Wehadkee Creek, and New River). Color ranged between 280-350 units in the hypolimnion at deep-water stations during the summer months. Downstream from the dam, color averaged 14 units at Station CH-2.5B to 70 units at Station CH-01A with a high of 150 units.
- During periods of high runoff, the upper reaches of the main stem and tributaries of the lake became reddish in color due to suspended clay. Turbidity in the upper reaches of the impounded areas of the Chattahoochee River and its tributaries reached highs of 160 and 123 Jackson turbidity units (JTU), respectively. Average turbidity was 47 JTU in the Chattahoochee River and 56 JTU in its tributaries. A steadily decreasing trend in turbidity values from the headwaters to the damsite was observed. Discharge waters averaged 15 JTU with a range of 4 to 26 JTU.
- Mineral content of the waters was low. Mean specific conductance ranged from 30 to 68 μmhos/cm while mean alkalinity ranged from 16 to 33 mg/l as $CaCO_3$. The mean and range for both of these parameters remained fairly constant at all stations sampled. The mean total dissolved solids (TDS) concentration ranged from 50 to 126 mg/l and decreased from the headwaters of the lake (Station CH-12) to Station CH-07. This decrease was interrupted by an increase at Station CH-06,

the station just downstream from the confluence with Yellowjacket Creek. In Yellowjacket Creek, the TDS concentration averaged 82 mg/l and ranged from 26 to 178 mg/1. From Station CH-06 downstream to the damsite, TDS continued to decrease. Discharge waters averaged 56 mg/1 TDS with a range of 22-110 mg/1.

SPECIAL WATER SUPPLY SAMPLES

Special composite samples (three days at Station CH-LG and four days at Station WPP) for drinking water source analyses were collected at the LaGrange and West Point Pepperell water intakes (see locations in Appendix B-1). These samples indicate that during the study period there were no major problems with pesticides or toxic metals in West Point Lake or in the release water. Most of the constituent concentrations were less than both analytic detection limits and U.S.P.H.S. drinking water standards. Exceptions were:

Parameters	CH-LG	WPP	40 CFR, Part 141 Specified Limits
Hg, total	2.5 µg/1	3.0 µg/1	2.0 µg/1
Ba, Total*	Within limits	1,200 µg/1	1,000 µg/1
Fe, Dissolved*	Within limits	470 µg/1	300 µg/1
Mn, Dissolved*	Within limits	438 µg/1	50 µg/1

Dissolved iron and manganese, although not considered toxic at these concentrations, can cause severe staining problems. EPA received reports from downstream water users of white bathtubs being filled and

* Because dissolved Fe and Mn values at both stations were not measured, they were calculated from Total Fe and Mn values based on the percentage in the dissolved form at two nearby stations (CH-01, 1.8 miles upstream from WPP and CH-07, 0.02 miles downstream from CH-LG).

turning black within five minutes (presumably from the oxidation of manganous ions). Similar problems were encountered in downstream textile operations.

DESCRIPTION OF STUDY AREA

CHATTAHOOCHEE WATERSHED

The Chattahoochee River originates in the Blue Ridge Mountains of northeast Georgia. It flows 235 miles southwestward across northern Georgia to West Point, then turns southward forming the Georgia-Alabama and Georgia-Florida boundaries, until it joins the Flint River at Chattahoochee, Florida. The combined waters of these two streams form the Apalachicola River in Florida.

WEST POINT DAM AND LAKE

West Point, Georgia, is the northern-most of five textile towns in the central Chattahoochee Valley, the others being the Alabama towns of Lanett, Shawmut, Langdale, and Fairfax. Less than three river miles north of West Point (at River Mile 309)*, the Corps of Engineers has constructed the 7,250-foot-long, 97-foot-high, gravity-type West Point Dam across the Chattahoochee River. This dam creates the fourth largest impoundment on the Chattahoochee River and impounds approximately 35 miles of the River, extending from West Point upstream to Franklin, Georgia. West Point Lake is a multipurpose project designed for power, flood control, water supply, and recreation. The project is designed to permit construction of a navigation lock through the main earth dam, if such an improvement is warranted at a later date. At normal pool level (635 feet above mean sea level) the 25,900 acre lake will have a volume of 604,500 acre-feet and a 525 mile shoreline. Principal streams flowing into the lake include the New River and Yellowjacket and Wehadkee Creeks.

The postimpoundment study area was the Chattahoochee River from the City of Franklin to West Point, Georgia (see Appendix E: Location Map).

* River mileage given in this report is an upstream measurement beginning at the mouth of the Apalachicola River in Florida.

Before impoundment, the Chattahoochee was very shallow in the study area, with rock riffles crossing it completely in many places. The riverbed was composed of various combinations of silt, clay, sand, and rock, and had an average gradient of 2.1 feet/mile. The banks and surrounding areas of the river and its tributaries had a dense cover of foliage. Although much of this foliage was clear-cut before impoundment, most of the trees along river and creek banks were topped at approximately 619 feet above mean sea level (msl) to provide fish habitats. In addition, large areas of trees along the shoreline were left standing to improve fishing and waterfowl hunting.[2]

WATER SUPPLY

West Point Lake, from Franklin Georgia, downstream to the damsite, has been classified for recreation. Within this area, there are two water supply intakes: an industrial intake for Deering Milliken of LaGrange (Station CH-DM) and a municipal intake for the city of LaGrange (Station CH-LG). These are located on the eastern shore of the lake near Station CH-07.

WASTE SOURCES

An inventory of industrial and domestic waste sources (0.1 mgd or greater) showed that three main streams transport wastewater into the lake: (1) Yellowjacket Creek, (2) New River, and (3) Chattahoochee River (Appendices A and E).

Yellowjacket Creek enters the lake 13.4 miles upstream from the dam. Wastewater treatment facilities, having a combined design flow of 1.95 mgd, discharge to Yellowjacket Creek from Hogansville and LaGrange, Georgia. The LaGrange-Yellowjacket Creek Sewage Treatment Plant (STP) has a design flow of 1.0 mgd and during the study was hydraulically

overloaded. Three small facilities with a combined design flow of 0.95 mgd were all operating at less than 75% capacity.

The New River enters the lake 27 miles upstream from the dam. It receives treated domestic wastewater from the Newnan, Georgia STP, which was operating at less than 75% of its 0.75 mgd design flow. The New River also receives treated wastewater from the William L. Bonell Company, an aluminum anodizing industry. This treatment plant was operating at greater than 75% of its 1.0 mgd design capacity during the study.

The Chattahoochee River is impounded by the West Point Dam upstream to approximately river mile 343.0 in the vicinity of Franklin, Georgia (34.6 miles upstream of the West Point Dam). The city of Franklin discharges from an overloaded activated sludge package treatment plant having a design flow of 0.085 mgd. The Franklin Aluminum Company in Franklin also discharges into the lake from a 0.225 mgd design flow facility operating at greater than 75% capacity.

Upstream from Franklin to the mouth of Wahoo Creek (55.9 miles upstream of the West Point Dam), there are no wastewater discharges to the Chattahoochee River greater than 0.1 mgd.

Two overloaded STP's in Newnan, Georgia, each with 0.4 mgd design flows, discharge into tributaries of Wahoo Creek. An industry operating at greater than 75% of its design flow of 0.235 mgd discharges into Wahoo Creek. The Georgia Power Company's "Yates Power Plant" discharges cooling water to the Chattahoochee River approximately two miles upstream from the mouth of Wahoo Creek. This plant was operating at greater than 75% of its 613 mgd design capacity during the study.

Between the above-mentioned power plant and the mouth of Bear Creek (74.1 miles upstream of the dam), there are no wastewater discharges greater than 0.1 mgd.

From the mouth of Bear Creek upstream to the Fulton County-Big Creek STP (116.9 miles upstream from the dam), twenty-one wastewater treatment facilities having a combined design flow of 164.2 mgd discharge into the Chattahoochee River or its tributaries.

Of this design flow, 82.2% (135 mgd) is contributed by the following facilities operating under the indicated status:

Facility	Design Flow (mgd)	Status
Cobb Co. Chattahoochee River, WTF	10	75% Cap.
Atlanta - R.M. Clayton, WTF	80	Overloaded, expansion to 120 mgd under construction
Fulton Co. - Camp Creek Plant	15	75% Cap.
Atlanta - Utoy Creek Plant	30	75% Cap.

Various industrial facilities contribute 10.6 mgd of treated wastewater and the remaining 18.6 mgd is discharged by smaller facilities (STPs, package treatment plants, and water treatment plants). A 767 mgd design flow power plant (Georgia Power Company's "Atkinson and McDonough Plant") operating at greater than 75% capacity, also discharges cooling water in this stretch of the river (105.6 miles upstream from the dam).

ENVIRONMENTAL CHANGES FOLLOWING IMPOUNDMENT

GENERAL

There are many well-defined water quality and other environmental changes which follow the impoundment of a river. West Point Lake is a classic example of these changes.

PHYSICAL-CHEMICAL CHANGES

Physical changes following impoundment include increased water volume, surface area and shoreline, and decreased water velocity. West Point Lake is an intermediate depth lake (90 feet maximum). Consequently, the downstream temperature regime is not drastically altered as is often the case with deeper lakes. Some buffering of the downstream temperature changes was observed (i.e., temperature downstream from the lake rose slowly throughout the summer peaking in September, while temperatures upstream at Franklin peaked in July, then began to decrease). Maximum observed water temperatures at both locations were approximately equal.

The decreased water velocity allows settling of suspended matter which contains much of the total iron and manganese entering the lake. The iron complexes with phosphorus, thus removing much of the total phosphorus from the water column.

Summertime stratification in the lake (West Point is classified as a weakly stratified lake) leads to anaerobic (reducing) conditions in the lower depths of the hypolimnion. These conditions cause the dissolution of iron, manganese, phosphorus, and other elements from the bottom sediments which results in high dissolved solid concentration near the bottom of the lake. A portion of the coffer dam left in place effectively blocks the discharge of extremely high concentrations of dissolved materials

from the hypolimnion. However, downstream concentrations of dissolved iron and manganese are higher than before impoundment. Concentrations of suspended iron downstream from the lake were much lower than prior to impoundment and suspended manganese concentrations remain about the same. Mass balances calculated for the April study showed that phosphorus, iron, and manganese were trapped by the lake, while nitrogen was exported. During September, phosphorus, nitrogen, and iron were trapped and manganese was exported.

BACTERIOLOGICAL CHANGES

During the preimpoundment study, high fecal coliform densities and numerous Salmonella isolations were observed [3] in the area to be impounded. The dilution caused by impoundment of the lake and the decreased velocity with consequently increased time for die-off, have effectively eliminated the bacteriological problems under normal flow and runoff conditions. Except for infrequent violations in the headwaters (Station CH-14), all fecal coliform counts in the lake were within water quality recreational standards. Violations occurred frequently at Stations CH-12 and CH-09 which, although affected by the impoundment, exhibited most of the characteristics of a free-flowing stream.

BIOLOGICAL CHANGES

Nutrient loadings from upstream point and non-point sources are expected to influence the fisheries of West Point Lake considerably. Some aquatic weed and algal bloom problems may occur in various sections of the lake because of high nutrient loadings.

STUDY METHODS

SAMPLING STATIONS

Nineteen sampling stations were established on the Chattahoochee River and its principal tributaries between Franklin and West Point, Georgia. Twelve of these stations were sampled during the EPA 1970-1971 preimpoundment study.[3] Station CH-2.5B (located in the tailrace waters approximately 1/2 mile upstream from preimpoundment Station CH-02) was substituted for Station CH-02.

Samples from CH-02 were collected from the bank of the river. Even though this type of sampling is not representative of the cross section of the river, this station was the only site accessible to the river downstream from the dam during construction. Station CH-2.5B is located on a balcony over very turbulent discharge water immediately downstream from the dam, providing more representative samples.

Additional grab and composite samples were collected at the Chattahoochee River water intakes of West Point Pepperell (Station WPP), City of LaGrange (Station CH-LG), and Deering Milliken Mills (Station CH-DM). Station descriptions are presented in Appendix B-1 and locations in Appendix E (study area map).

SAMPLING SCHEDULE AND INTERAGENCY COOPERATION

This study was conducted in two phases with close interagency cooperation. The first phase consisted of one or two day studies conducted twice each month between January and November, 1975 by Georgia Environmental Protection Division (GA-EPD) personnel. During the same period, U. S. Geological Survey (USGS) personnel collected samples at Stations CH-01A, CH-07, and CH-12. Additional samples were collected at Station CH-12 by the City of Atlanta, Georgia. All laboratory analyses for this phase were performed by the GA-EPD laboratory.

The second or intensive study phase consisted of two one-week studies by EPA, one in April and one in September, 1975. Representatives of the GA-EPD and USGS accompanied and assisted EPA personnel during sampling. All laboratory analyses for this phase were performed by EPA. (See Appendix B-2 for a detailed sampling schedule; Appendix C-2 for a complete listing of analytical data.)

SAMPLING METHODS (INTENSIVE PHASE ONLY)

At all stations sampled from bridges (CH-01, CH-02.5B, CH-04, CH-09, CH-11, CH-12, CH-15, and CH-16), samples were collected at a depth of one foot below the surface. All other stations were sampled one foot below the surface, one foot above the bottom, and at various depths above and below the thermocline (when one existed).

Daily samples for physical, chemical, and bacteriological analyses were collected at each station during the one-week intensive studies. Samples for sulfide analyses were collected only from sites with zero dissolved oxygen concentrations.

Grab sample techniques were used for daily collections. Samples collected for dissolved substance analyses were Millipore* filtered in the field immediately after collection. All necessary sample preservations were performed in the field immediately after collection.

BIOLOGICAL ANALYSES (ENTIRE STUDY)

Monthly water samples (May through November, 1975) were collected by GA-EPD personnel at Stations CH-03, CH-05, CH-06, CH-07, CH-08, CH-10, CH-12, CH-13, and CH-14 for chlorophyll *a* analysis. All analyses were performed by EPA, Surveillance and Analysis Division (SAD) personnel.

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* Does not imply endorsement of this product by EPA.

Samples for chlorophyll a were also collected at Station CH-2.5B during October and November, 1975. Depth of the euphotic zone was determined by Secchi disk readings. At the various stations, this depth ranged from 10 feet to 28 feet. Chlorophyll a samples were collected from one foot below the surface, at mid-depth of, and near the lower limits of the euphotic zone.

EPA personnel collected water samples on September 16, 1975 from Stations CH-03, CH-07, CH-08, CH-13, and CH-14 (Appendix E) and on November 11, 1975, at Station CH-14 at 0.1 meter below the surface for algal growth potential tests (AGPT). GA-EPD personnel also sampled at Station CH-14 on November 11, 1975 for AGPT. Water samples were autoclaved and filtered with a 0.45-μ membrane filter according to EPA algal assay procedures [15] at the SAD Ecology Branch Laboratory. Chemical analyses of autoclaved-filtered waters were conducted by the Chemical Services Branch of SAD.

The following additions of nitrogen (as $NaNO_3$) and phosphorus (as K_2HPO_4) were made to the water samples: 1.00 mg N per liter, 0.05 mg P per liter, and 1.00 mg N per liter plus 0.05 mg P per liter. All tests were conducted in triplicate, and each flask was inoculated to give a final concentration of 1,000 cells per ml from a 7-day old culture of Selanastrum capricornutum Prinz. Inoculated flasks containing the various station waters without nutrient additions served as controls. A total of 60 replicates were analyzed in September (12 per station).

The September tests indicated that Station CH-14 waters were much more sensitive to nutrient additions than waters of other stations tested; therefore, additional tests were conducted in November to further determine algal growth potential in Station CH-14 waters. Table 1 summarizes the nutrient additions made singly and in combination with Station CH-14 waters.

Field collections and laboratory processing of water samples were similar to procedures in September. Further details about methodology used can be found in US-EPA's algal assay procedure [15].

TABLE 1

NUTRIENT ADDITIONS TO STATION CH-14
WATER FOR THE NOVEMBER AGPT

Replicate No.	Nitrogen Addition (mg/l)	Phosphorus Addition (mg/l)
1	0.0	0.0
2	0.0	0.015
3	0.0	0.05
4	0.0	0.075
5	0.0	0.10
6	0.50	0.0
7	1.0	0.0
8	1.25	0.0
9	1.50	0.0
10	0.50	0.015
11	1.0	0.05
12	1.25	0.075
13	1.5	0.10

BACTERIOLOGICAL ANALYSIS (INTENSIVE PHASE ONLY)

All bacteriological samples were collected at a depth of approximately one foot using a grab sample technique. Samples were placed on ice and bacteriological analyses were initiated within six hours after collection.

Fecal coliform densities were determined using the membrane filter technique as outlined in Standard Methods for the Examination of Water and Wastewater, 13th Edition.[4]

Qualitative determinations for the presence of Salmonella were made at selected stations using the modified swab technique of Moore[5]. Swabs

were suspended just beneath the water surface for a 3-5 day period, retrieved, placed in sterile plastic bags, and returned to the mobile laboratory for analysis. Swabs were placed into wide-mouth jars containing approximately 200 ml of 1.5 strength Duicitol Selenite Broth. The inoculated broth was incubated for 18 to 24 hours at 41.5°C according to the procedure of Spino.[6]

After incubation in broth-enriched media, an inoculum was streaked onto XLD Agar, Taylor (XLD), and Hektoen Enteric Agar (HE) plates and incubated for 18-24 hours. Suspected Salmonella colonies were picked from the plates and subjected to the identification scheme outlined in Table 2.

The methods and media outlined in Table 2 are described by Ewing[7] with the exception of the cytochrome oxidase and lysine decarboxylase methods. Oxidase and decarboxylase activity was determined using Patho-Tec-CO and Patho-Tec-LD* reagent impregnated paper strips, respectively.

Definitive serological identification of Salmonella isolates was made at the EPA-Athens Laboratory. The methodology used was the standard serological procedures described by Edwards and Ewing[8].

PHYSICAL AND CHEMICAL ANALYSIS (INTENSIVE PHASE ONLY)

Measurements and analyses were performed at the sampling site, at the SAD (US-EPA) mobile laboratory in West Point, Georgia, or at the EPA Regional Laboratory in Athens, Georgia. The parameter coverage, frequency of analysis, and locations where various analyses were made are presented in Table 3.

Flow measurements were provided by the USGS from the Chattahoochee River gages at Whitesburg and West Point, Georgia. Additional tributary

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* Does not imply endorsement of this product by EPA.

TABLE 2

IDENTIFICATION SCHEME FOR SALMONELLA SUSPECTS

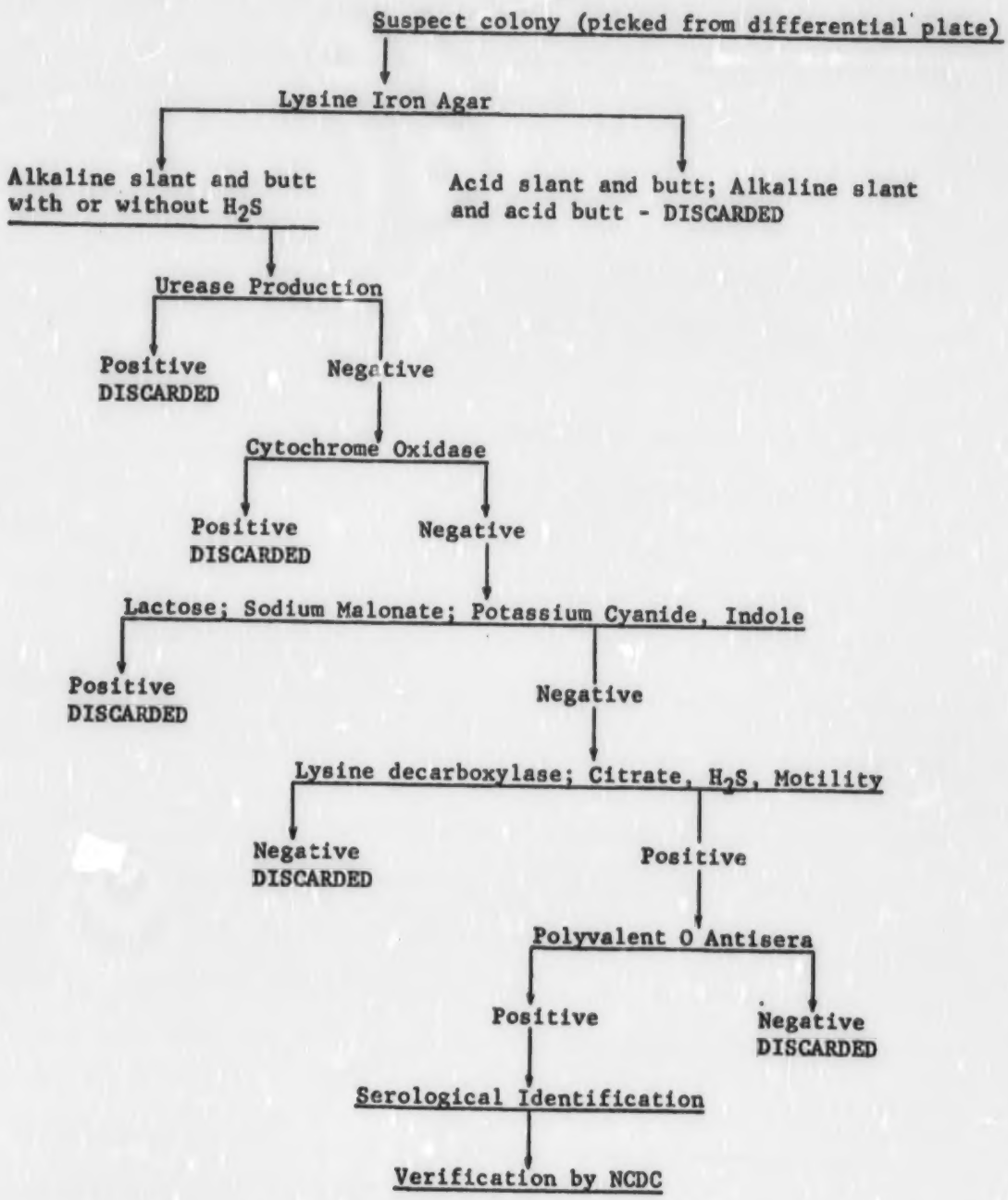


TABLE 3
FREQUENCY AND LOCATION OF ANALYSES
PHYSICAL, CHEMICAL AND BACTERIOLOGICAL PARAMETERS

Parameter	Frequency of Measurement	Analysis Location
PHYSICAL		
Temperature	daily	Field
Color	daily	Mobile Lab
Turbidity	daily	Mobile Lab
Conductivity	daily	Mobile Lab
CHEMICAL		
Dissolved Oxygen	daily	Field
pH	daily	Field
Alkalinity	daily	Mobile Lab
Iron (Total and Dissolved)	daily	Regional Lab
Manganese (Total and Dissolved)	daily	Regional Lab
Sulfides	Selected times	Regional Lab
Sulfates	daily	Regional Lab
Solids (Total, Dissolved, & Suspended)	daily	Mobile Lab
Nitrogen (TKN, NH_3 & NO_2+NO_3)	daily	Regional Lab
Phosphorus (Total and Dissolved)	daily	Regional Lab
Total Organic Carbon	daily	Regional Lab
Total Hardness	daily	Mobile Lab
Biochemical Oxygen Demand, 5 day (BOD_5)	daily	Mobile Lab
BACTERIOLOGICAL		
Fecal Coliforms	daily	Mobile Lab
Salmonella	once/week	Mobile Lab and Regional Lab

flow measurements were provided by USGS from stations established and rated especially for the April intensive study. High water levels after full impoundment of the lake precluded the use of these special stations during the September intensive study. Rainfall data were provided by the National Oceanic and Atmospheric Administration (NOAA).

STUDY FINDINGS

RAINFALL, RIVERFLOW, AND LAKE DISCHARGE

Initial filling of the lake began on October 16, 1974. Prior to that date, the surface elevation of the river averaged 532 feet above mean sea level (msl). By November 13, 1974, the lake level had risen to 616 feet msl. This level was maintained until May 1, 1975, to allow topping of trees. Between May 1 and May 19, 1975, the discharge from the lake was regulated (see May discharge values in Table 4) to complete filling of the lake. During the May 1 to May 19 period, the lake level rose to 635 feet msl (normal power pool).

Total annual precipitation[9] for the study area in 1975 averaged approximately 72 inches. This total is based on the average of the monthly totals for four cities in the immediate drainage basin of the lake (Table 5). Compared to the long range annual average of 55.61 inches, 1975 was a wet year.

Heavy areawide rains (2.66 inches) occurred during the first two days (April 14 and 15, 1975) of the spring intensive study. From April 15 through 18, Station CH-14 in the upper end of the lake was characterized by swift, turbulent, and turbid water. Turbidity at this station averaged 39 Jackson Turbidity Units (JTU) in April and only 14 JTU in September (dry period).

The normal autumn dry period was interrupted by a frontal system in early October which contributed an unusually heavy amount of rain to the Chattahoochee River Valley. As shown on Table 5, the total rainfall for October of 7.09 inches nearly doubles the individual September and November totals of 3.59 inches each.

TABLE 4
TOTAL MONTHLY DISCHARGES (cfs)
RIVER AND LAKE

	USGS Gage at Whitesburg, Ga.[1]/	Corps of Eng. Records for West Point Lake Discharge	USGS Gage at West Point, Ga.[1]/
January	139,310	239,453	233,540
February	191,660	335,332	327,350
March	323,050	479,537	476,310
April	220,530	338,997	381,210
May	183,880	74,249	79,298
June	116,320	152,157	161,108
July	99,600	131,246	149,417
August	115,440	160,764	178,287
September	96,280	123,348	136,160
October		216,724	
November		217,693	
December		196,192	

1/ Refer to Appendix C-1 for complete discharge records

TABLE 5
MONTHLY RAINFALL TOTALS (INCHES)

	LaGrange, Georgia	Rock Mills, Alabama	Franklin, Georgia	Newnan, Georgia	Average
January	6.90	6.48	5.42	6.44	6.31
February	8.73	8.71	7.43	7.86	8.18
March	8.84	7.61	8.37	7.70	8.13
April	9.97	7.92	6.19	6.11	7.55
May	3.46	4.98	4.80	7.42	5.17
June	5.85	4.59	5.83	3.58	4.96
July	6.51	6.54	6.84	5.43	6.33
August	4.37	7.04	5.70	6.41	5.88
September	2.94	4.22	4.27	2.91	3.59
October	6.03	7.67	7.63	7.04	7.09
November	3.03	3.69	3.44	4.18	3.59
December	4.97	5.09	4.43	5.31	4.95
				TOTAL	71.73

EUTROPHICATION POTENTIAL

The eutrophication potential of West Point Lake was examined by two different approaches: (1) Algal growth potential tests (AGPT), and (2) evaluation through use of eutrophication models.

1. Algal Growth Potential Test

The algal growth potential test for West Point Lake was performed to supplement on-going studies by the State of Georgia and to further assess the lake's trophic status and biological sensitivity to increased nutrient levels of phosphorus and nitrogen.

Specific objectives of the study were:

(a) To determine if phosphorus or nitrogen were limiting algal growth in areas of West Point Lake,

(b) To quantify the biological response to changes in the concentration of nitrogen and phosphorus, and

(c) To compare the growth potential results of West Point Lake with results of other U.S. lakes of known trophic status.

In September, five stations were assessed for their biological sensitivity to inputs of nitrogen and phosphorus. Growth at all stations studied was very low. The greatest algal yield was 2.3 ug/l of chlorophyll a, (Table 6) at Station CH-14. This was equivalent to less than 1 mg/l dry weight of S. capricornutum. The low growth may have been due to a noticeable (contaminating) fungal growth in all of the test flasks.

Although maximum yield was very low, discernible differences between the stations and treatments could be detected with chlorophyll a analyses of the test cultures. Examination of the control results revealed that West Point Lake headwaters (Station CH-14) were more than two times fertile

TABLE 6

MAXIMUM CHLOROPHYLL (a) (ug/l)

YIELDS OF Selanastrum capricornutum

FOR SEPTEMBER

	CH-14	CH-07	CH-03	CH-08	CH-13
Control	1.00	0.38	0.12	0.20	0.34
Control + 1.00 mg N/l	2.32	0.38	0.22	0.27	0.29
Control + 0.05 mg P/l	0.74	0.26	0.22	0.25	0.29
Control + 0.05 mg P/l + 1.00 mg N/l	1.46	0.59	0.29	0.35	0.49

MAXIMUM DRY WEIGHT YIELDS (mg/l)

OF Selanastrum capricornutum

AT STATION CH-14 FOR NOVEMBER

Control	19.0
Control + 1.00 mg N/l	32.0
Control + 0.05 mg P/l	17.0
Control + 0.05 mg P/l + 1.00 mg N/l	27.0

(Table 6) than other areas of the lake studied. Maximum yield decreased sequentially for the three lake stations from the headwaters (Station CH-14) to the dam area (Station CH-03) (Table 6).

At all of the stations except Station CH-14, the increased maximum yield occurred when phosphorus and nitrogen were added to the waters in combination, indicating that phosphorus and nitrogen possibly were present in amounts so small as to limit growth when additions of these nutrients were added to lake waters singly. Only when phosphorus and nitrogen were added jointly did the algae respond, and greater yields were recorded for those stations.

At Station CH-14 (September results), there was a significant difference (all samples in triplicate) at the 0.95 confidence level between the nitrogen addition and the control (Table 6). Nitrogen additions resulted in the maximum yield, which indicated that nitrogen was limiting maximum algal yields in the headwaters in September. There was not a significant difference at the 0.95 confidence level between the nitrogen and nitrogen-plus-phosphorus treatments. These insignificant differences indicate that further additions of phosphorus to lake headwaters is probably inconsequential at this time of the year, because relatively low nitrogen concentrations limit algal yield and potential nuisance blooms. Another AGPT conducted in November verified that nitrogen limits growth in the lake headwaters in the autumn and further quantified S. capricornutum yields when nitrogen and phosphorus are added, singly and in combination.

The results of algal growth potential tests when varying concentrations of nitrogen and phosphorus were added to West Point Lake headwaters, both singly and in combination, are illustrated in Table 6. Again, the

November treatments verified that nitrogen limits algal growth because the addition of phosphorus in various concentrations did not increase maximum yields of S. capricornutum over the lake controls, whereas yields in nitrogen-supplemented treatments were almost twice as great as the control and phosphorus treatments. In fact, in the 1.0 mg/l nitrogen treatment, average yield was 65 percent greater than the control average yield.

The 1.00 mg/l nitrogen addition resulted in the greatest maximum algal yield. Yield differences between different treatments (Table 6) were not significant, and the increase of nitrogen beyond 0.5 to 1.0 mg/l will not further increase growth. Various additions of phosphorus and nitrogen in combination did not increase yields beyond that encountered with the 1.0 mg/l nitrogen addition. At these higher concentrations of nitrogen and phosphorus, apparently some other element becomes limiting to algal yields.

Miller, et al.[11] studied the primary productivity of 49 lakes throughout the United States. Of these lakes, the algal biomass produced in the controls ranged between 0.02 and 18.70 mg dry weight per liter. Based on AGPT studies, Miller, et al.,[11] were able to classify these lakes into four productivity groups: (1) low productivity (0.00 to 0.10 mg dry weight per liter), (2) moderate productivity (0.11 to 0.80 mg dry weight per liter), (3) moderately high productivity (0.81 to 6.0 mg dry weight per liter), and (4) high productivity (6.10 to 20.00 mg dry weight per liter).

The September dry weight yields during the Region IV AGPT were very low (less than 1 mg/liter) and could only be detected by chlorophyll fluorescence techniques. Therefore, all stations sampled in September would be categorized as low production. The fungal growth in the cultures, however, may have confounded the results by reducing algal yields at all stations through "competitive" exclusion.

Results from the November AGPT for West Point Lake headwaters indicate these waters are highly productive (eutrophic) according to the Miller, et al.,[1] classification scheme. The Selanastrum capricornutum dry weight yield for the November AGPT (Table 6) control was 19.0 mg dry weight per liter, which placed it in Green's highly productive category where dry weights range from 6.10 to 20.0 mg dry weight per liter. Treated lake waters (autoclaved and filtered) in November also were similar to highly productive lakes,[11] with respect to selected chemical parameters and their concentration (Tables 7 and 8).

These results coincide well with the predictions of the eutrophication models. The models (evaluating only phosphorus) lead to the conclusion that enough phosphorus is present to exceed the "dangerous" level, and, indeed, the AGPT data show that the large algal growth in the control was not increased by the addition of more phosphorus alone. Phosphorus is evidently present in much greater than limiting amounts.

2. Evaluation Through Use of Eutrophication Models

In order to further evaluate the trophic status of West Point Lake, results of the September field study (not the biological AGPT study) were compared to an evaluation of 53 southeastern lakes by Gakstater, et al.[10] Entry WP1 (West Point, first comparison) in Tables 9 and 10 was determined by calculating input and output loads from the mean phosphorus concentrations measured during the September study. Results of these calculations were then plotted on Figures 4, 5, and 6. The results were in the eutrophic zone of all three models (Vollenweider, Dillon, and Larsen-Mercier). Entry WP2 (West Point second comparison) in Tables 9 and 10 was calculated using the lake input loading from WP1, but using the theoretical phosphorus

CHEMICAL CHARACTERISTICS OF
AGPT CONTROLS FOR SEPTEMBER AND NOVEMBER TESTS

Station	Date	Alkalinity mg/l $CaCO_3$	Conductivity ugmhos	Hardness mg/l as $CaCO_3$	TKN mg/l	NH_3-N mg/l	NO_2 NO_3 mg/l	Ortho Phosph. mg/l	Total Phosph.	TOC mg/l	Ca mg/l	Mg ug/l	Fe ug/l
CH-03	9/16/75	19	70	17	0.47	0.07	0.01	0.01	0.03	2.7	3895	2750	67
CH-07	9/16/75	15	80	16	0.35	0.06	0.57	0.04	0.05	2.5	3670	2480	42.5
CH-08	9/16/75	22	80	20	0.30	0.05	0.03	0.01	0.03	3.0	4100	3265	36.5
CH-13	9/16/75	18	70	17	0.30	0.05	0.02	0.01	0.03	3.0	4000	2890	57.5
CH-14	9/16/75	13	80	16	0.14	0.07	0.77	0.125	0.14	3.0	3660	2447	60
CH-14	11/23/75	18	80	26	0.17	0.12	0.90	--	0.17	2.0	2025	1350	610

TABLE 8

CHEMICAL CHARACTERISTICS OF THE 11 MODERATELY HIGH PRODUCTIVITY LAKES

0 81-6 00 mg dry wt l^{-1} S. capricornutum

(From Ref. 11)

Determination*	Relative hardness			
	Soft	Moderate	Hard	Very hard
Conductance (μmho cm^{-1}) 25°C	74·000 ± 12·000	280·000 ± 12·000	330·000 ± 25·000	1220·000
Tot. alkalinity	21·000 ± 5·000	120·000 ± 9·200	157·000 ± 8·400	120·000
pH range	6·700 - 8·000	7·800 - 8·500	7·400 - 8·500	9·200
Tot. hardness	21·000 ± 6·100	126·000 ± 13·000	177·000 ± 3·500	368·000
Tot. s. carbon	12·000 ± 6·700	40·000 ± 0·700	45·000 ± 5·600	26·000
Calcium	5·300 ± 1·700	30·000 ± 2·800	26·000 ± 2·800	86·000
Magnesium	1·800 ± 0·500	13·000 ± 2·800	28·000 ± 3·500	50·000
Tot. s. phosphorus	0·029 ± 0·028	0·420 ± 0·000	0·026 ± 0·000	0·170
	0·081 ± 0·063	0·400 ± 0·000	0·018 ± 0·000	0·160
Ortho phosphorus	0·007 ± 0·004	0·390 ± 0·000	0·010 ± 0·004	0·140
	0·012 ± 0·004	0·380 ± 0·000	0·010 ± 0·004	0·070
Inorganic nitrogen	0·090 ± 0·100	0·110 ± 0·020	0·160 ± 0·070	0·007
	0·090 ± 0·090	0·140 ± 0·020	0·220 ± 0·000	0·070
Organic nitrogen	0·440 ± 0·110	1·100 ± 0·050	0·780 ± 0·160	0·700
	0·420 ± 0·120	1·000 ± 0·030	0·690 ± 0·280	0·430
Tot. s. iron	0·025 ± 0·009	0·009 ± 0·001	0·021 ± 0·017	0·010
	0·025 ± 0·010	0·014 ± 0·004	0·012 ± 0·002	0·017
Maximum yield		3·100 0·420	1·300 0·400	1·700
S. capricornutum	3·000 ± 1·100	2·100 ± 0·350	6·500 ± 4·700	4·300
Number of lakes	6	2	2	1

* mg/l unless otherwise indicated

APPLICATION OF VOLLENWEIDER AND LARSEN-MERCIER MODELS TO 54 SOUTHEASTERN LAKES

STATE / LAKE	LAKE NO.	TROPHIC STATE (REPORT)	$\bar{Z}$(M)	T_w(YR)	PHOSPHORUS LOADING RATE ($G/M^2/YR$)	EUTROPHIC LOADING RATE ($G/M^2/YR$)	VOLLENWEIDER FACTOR (LOAD RATE/ DANGEROUS RATE)	MEDIAN TOTAL PHOSPHORUS (UG/L)	INFLOW RATE (M^3/SEC)	INFLOW LOAD (KG/YR)	OUTLET LOAD (KG/YR)	R_{EXP}	$\overline{[P]}$ (UG/L)
GEORGIA													
ALATOONA	1	E-M	9.4	0.28	2.07	1.12	1.85	20	50.6	99,480	64,300	.35	62
BLACKSHEAR	2	E	5.3	0.04	9.78	2.10	4.66	35	136.2	337,125	135,075	.60	78
BLUE RIDGE	3	M	18.4	0.48	0.91	1.16	0.78	10	16.3	12,200	4,390	.64	24
BURTON	4	M	11.9	0.44	0.40	1.00	0.40	7	9.6	4,455	2,005	.55	15
CHATUGE	5	M	10.6	0.81	0.39	0.70	0.56	14	12.0	11,320	8,000	.29	30
CLARK HILL	6	E-M	10.9	0.37	1.59	1.04	1.53	24	264.3	450,600	171,255	.62	54
HARDING	7	E	9.4	0.04	58.74	3.00	19.58	114	185.8	1,390,390	648,575	.53	237
HIGH FALLS	8	E	3.7	0.04	8.07	1.82	4.43	47	7.5	19,685	14,915	.24	83
JACKSON	9	E	6.9	0.08	33.38	1.72	19.41	94	49.6	641,470	237,520	.63	410
NOTTLEY	10	M	13.1	0.63	0.75	0.88	0.85	15	11.4	13,060	8,000	.39	36
SEMINOLE	11	E	3.0	0.02	8.82	2.10	4.20	40	612.4	1,338,670	1,385,225	.02	69
SIDNEY LANIER	12	M	19.5	1.60	0.98	0.68	1.44	16	60.5	158,635	16,880	.89	83
SINCLAIR	13	E	6.6	0.15	4.10	1.30	3.15	28	89.3	254,870	175,555	.31	91
WALTER F. GEORGE	14	E	6.2	0.13	4.54	1.32	3.44	48	284.0	846,325	559,505	.34	94
WEST POINT	WP1	-	7.2	0.15	12.20	1.40	8.70	60	157.9	1,250,000	239,000	.81	260
WEST POINT[2]	WP2	-	7.2	0.15	12.20	1.40	8.70	70[4]	157.9	1,250,000	900,000	.28	260
WEST POINT[3]	WP3	-	7.2	0.15	1.80	1.40	1.30	17[4]	157.9	187,000	134,640	.28	39
NORTH CAROLINA													
BLEWETT FALLS	15	E	11.9	0.02	91.07	4.60	19.80	90	213.7	943,535	517,685	.45	140
BADIN	16	E	14.2	0.08	16.66	2.50	6.66	42	141.4	402,655	316,515	.21	90
FONTANA	17	M	41.3	0.49	2.88	1.74	1.66	11	115.5	124,175	65,830	.47	34
HICKORY	18	E	9.4	0.09	5.71	1.90	3.01	47	55.9	95,860	71,360	.26	54
HIGH ROCK	19	E	4.9	0.07	14.78	1.52	9.72	90	136.7	950,075	437,005	.54	220
HIWASSEE	20	M	21.3	0.32	1.80	1.52	1.18	15	54.0	45,845	25,000	.45	27
JAMES	21	E	13.5	0.57	1.13	0.94	1.20	20	19.8	29,835	48,690	(PHOSPHORUS LOSS)	
JUNALUSKA	22	E	5.6	0.04	6.38	2.40	2.66	31	4.1	5,170	5,740	(PHOSPHORUS LOSS)	
LOOKOUT SHOALS	23	E	9.3	0.02	18.52	4.10	4.52	26	60.5	76,655	77,030	(PHOSPHORUS LOSS)	
MT.ISLAND	24	M	5.4	0.03	4.31	2.41	1.79	18	67.2	56,385	42,815	.24	27
NORMAN	25	E	10.2	0.65	0.81	0.76	1.07	20	65.2	106,490	30,965	.71	52
RHODHISS	26	E	6.3	0.06	14.20	2.00	7.10	61	48.4	202,395	106,660	.47	133
SANTEETLAH	27	M	16.8	0.44	0.69	1.19	0.58	11	14.0	7,960	5,315	.33	18
TILLERY	28	E	9.7	0.04	14.92	2.82	5.29	40	154.6	317,605	264,015	.17	65
WATERVILLE	29	E	22.7	0.04	94.05	4.40	21.38	103	24.0	129,785	63,445	.51	171
SOUTH CAROLINA													
W.C.BOWEN	30	M-E	----[1]	----[1]	0.36	0.38	1.00	22	3.2	2,435	2,580	(PHOSPHORUS LOSS)	
FISHING CREEK	31	E	7.6	0.02	52.95	3.20	16.55	143	133.1	722,115	662,045	.08	172
GREENWOOD	32	E	7.3	0.22	8.97	1.14	7.87	61	49.5	413,645	90,815	.78	265
HARTWELL	33	M	14.0	0.92	0.78	0.74	1.05	12	119.7	194,155	34,490	.82	51
KEOWEE	34	M	15.2	1.10	0.29	0.72	0.40	8	31.5	19,990	17,345	.13	20
MARION	35	E	4.0	0.12	3.54	1.10	3.22	55	473.1	1,582,735	682,610	.57	106
MOULTRIE	36	E	5.8	0.11	2.47	1.38	1.79	26	416.3	604,215	392,415	.35	46
MURRAY	37	E	12.7	0.95	1.47	0.70	2.10	24	86.6	303,265	83,275	.73	111
ROBINSON	38	E	4.1	0.18	0.49	0.92	0.53	14	6.6	4,470	3,265	.27	21
SALUDA	39	E	4.0[1]	0.01[1]	16.94	3.10	5.46	46	17.7	34,265	20,440	.40	61
SECESSION	40	E	----[1]	----[1]	7.10	1.40	5.07	57	6.2	25,275	12,000	.53	129
WATEREE	41	E	6.9	0.07	11.08	1.80	10.26	94	161.2	614,465	462,865	.25	121
WYLIE	42	E	7.0	0.11	7.53	1.56	4.83	42	110.2	399,725	176,385	.56	115
ALABAMA													
BANKHEAD	43	E	3.1	0.02	17.26	2.43	7.10	29	178.6	642,885	218,875	.66	114
HOLT LOCK	44	E	7.9	0.02	17.78	4.10	4.34	18	191.4	237,449	149,105	.37	39
GANTT	45	E-M	1.4	0.02	2.77	1.62	1.77	29	27.6	31,005	32,250	(PHOSPHORUS LOSS)	
PICKWICK	46	E	4.4	0.02	14.88	3.10	4.77	57	1,526.8	2,818,620	2,995,305	(PHOSPHORUS LOSS)	
PURDY	47	E	5.1	0.30	3.44	0.80	4.30	49	2.3	14,810	5,825	.61	204
MARTIN	48	E-M	12.9	0.48	1.36	0.99	1.37	17	133.9	214,640	81,110	.62	51
GUNTERSVILLE	49	E	4.6	0.04	6.87	2.10	3.27	44	1,125.4	1,887,680	1,606,290	.15	53
LAY	50	E	10.2	0.04	17.62	2.90	6.08	76	402.3	854,450	1,051,970	(PHOSPHORUS LOSS)	
MITCHELL	51	E	1.3	<0.01	45.98	4.00	11.50	53	442.8	1,086,400	1,126,335	(PHOSPHORUS LOSS)	
WEISS	52	E	2.8	0.04	9.58	1.56	6.14	92	252.5	1,170,310	706,815	.40	147
WILSON	53	E	12.5	0.02	38.42	4.60	8.35	53	1,397.7	2,411,035	2,285,785	.05	55

1/MEAN DEPTH UNKNOWN; $\bar{Z}/T_w$ CALCULATED USING SURFACE AREA AND OUTFLOW RATE.

2/CALCULATED USING THEORETICAL VALUE OF $R_{EXP}=R_P$ AS CALCULATED FROM EQS 1-5 PP 25, REF.12.

3/CALCULATED USING $R_{EXP}=R_P$ AS ABOVE BUT ALSO CONSIDERING 95% REMOVAL OF PHOSPHORUS FROM POINT SOURCES IN THE ATLANTA METROPOLITAN AREA.

4/$\log_{10}$(MEDIAN T. PHOS.)=0.772 $\log_{10}$(VOLLENWEIDER FACTOR)+ 1.135(REF.10)

TABLE 10
(From Ref. 10)

DILLON MODEL

		L ($g/m^2/yr$)	R		L(1-R)	z	
				$(yr)^{-1}$			
1.	Allatoona	2.07	0.35	3.57	0.38	9.4	E-M
2.	Blackshear	9.78	0.60	25.00	0.16	5.3	E
3.	Blue Ridge	0.91	0.64	2.08	0.16	18.4	M
4.	Burton	0.40	0.55	2.27	0.08	11.9	M
5.	Chatuge	0.39	0.29	1.23	0.22	10.6	M
6.	Clark Hill	1.59	0.62	2.70	0.22	10.9	E-M
7.	Harding	58.74	0.53	25.00	1.10	9.4	E
8.	High Falls	8.07	0.24	25.00	0.25	3.7	E
9.	Jackson	33.38	0.63	12.50	0.99	6.9	E
10.	Nottley	0.75	0.39	1.59	0.29	13.1	M
11.	Seminole	8.82	0.02	50.00	0.17	3.0	E
12.	Sidney Lanier	0.98	0.89	0.625	0.17	19.5	M
13.	Sinclair	4.10	0.31	6.67	0.42	6.6	E
14.	Walter F. George	4.54	0.34	7.69	0.39	6.2	E
15.	Blewett Falls	91.07	0.45	50.00	1.00	11.9	E
16.	Badin	16.66	0.21	12.50	1.05	14.2	E
17.	Fontana	2.88	0.47	2.04	0.75	41.3	M
18.	Hickory	5.71	0.26	11.11	0.38	9.4	E
19.	High Rock	14.78	0.54	14.29	0.48	4.9	E
20.	Kiwassee	1.80	0.45	3.12	0.32	21.3	M
21.	James	1.13	(P loss)	1.75	--	13.5	E
22.	Junaluska	6.38	(P loss)	25.00	--	5.6	E
23.	Lookout Shoals	18.52	(P loss)	50.00	--	9.3	E
24.	Mt. Island	4.31	0.24	33.33	0.10	5.4	M
25.	Norman	0.81	0.71	1.54	0.15	10.2	E
26.	Rhodhiss	14.20	0.47	16.67	0.45	6.3	E
27.	Santeetlah	0.69	0.33	2.27	0.20	16.8	M
28.	Tillery	14.92	0.17	25.00	0.49	9.7	E
29.	Waterville	94.05	0.51	25.00	1.84	22.7	E
30.	W. C. Bowen	0.38	(P loss)	--	--	*	M-E
31.	Fishing Creek	52.95	0.08	50.00	0.97	7.6	E
32.	Greenwood	8.97	0.78	4.55	0.43	7.3	E
33.	Hartwell	0.78	0.82	1.09	0.13	14.0	M
34.	Keowee	0.29	0.13	0.19	0.28	15.2	M
35.	Marion	3.54	0.57	8.33	0.18	4.0	E
36.	Moultrie	2.47	0.35	9.09	0.18	5.8	E
37.	Murray	1.47	0.73	1.05	0.38	12.7	E
38.	Robinson	0.49	0.27	5.56	0.06	4.1	E
39.	Saluda	16.94	0.40	100.00	0.10	4.0	E
40.	Secession	7.10	0.53	--	--	*	E
41.	Wateree	11.08	0.25	14.29	0.58	6.9	E
42.	Wylie	7.53	0.56	9.09	0.36	7.0	E
43.	Bankhead	17.26	0.66	50.00	0.12	3.1	E
44.	Holt Lock	17.78	0.37	50.00	0.22	7.9	E
45.	Gantt	2.77	(P loss)	50.00	--	1.4	E-M
46.	Pickwick	14.88	(P loss)	50.00	--	4.4	E
47.	Purdy	3.44	0.61	3.33	0.40	5.1	E
48.	Martin	1.36	0.62	2.08	0.25	12.9	E
49.	Guntersville	6.87	0.15	25.00	0.23	4.6	E
50.	Lay	17.62	(P loss)	25.00	--	10.2	E
51.	Mitchell	45.98	(P loss)	100.00	--	1.3	E
52.	Weiss	9.58	0.40	25.00	0.23	2.8	E
53.	Wilson	38.42	0.05	50.00	0.73	12.5	E
WP1	West Point	12.2	0.81	6.67	0.35	7.2	-
WP2	West Point	12.2	0.28	6.67	1.32	7.2	-
WP3	West Point	1.8	0.28	6.67	.19	7.2	-

*mean depth unknown

Fig. 4
(FROM REF. 10)

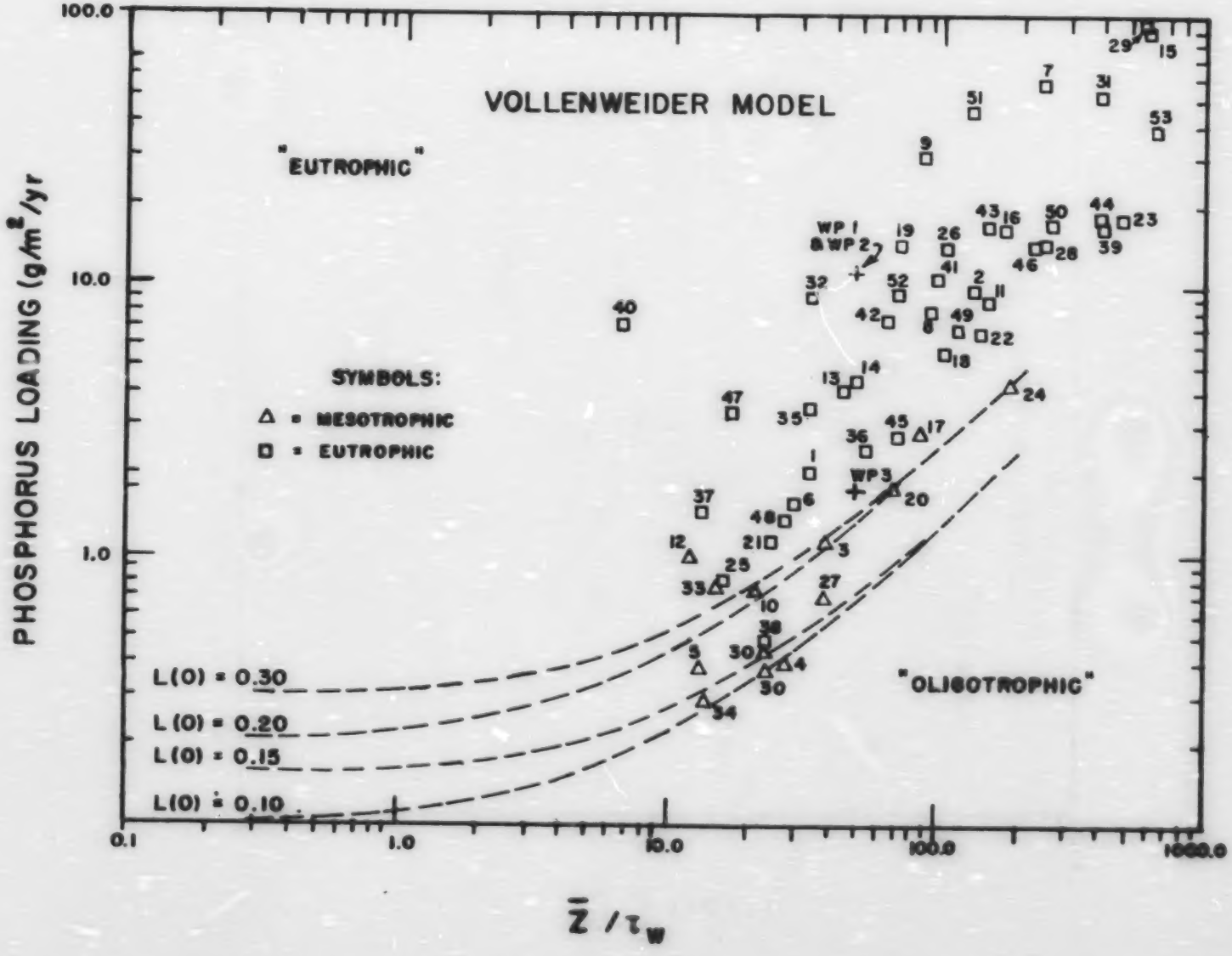


FIG 5
(FROM REF. 10)

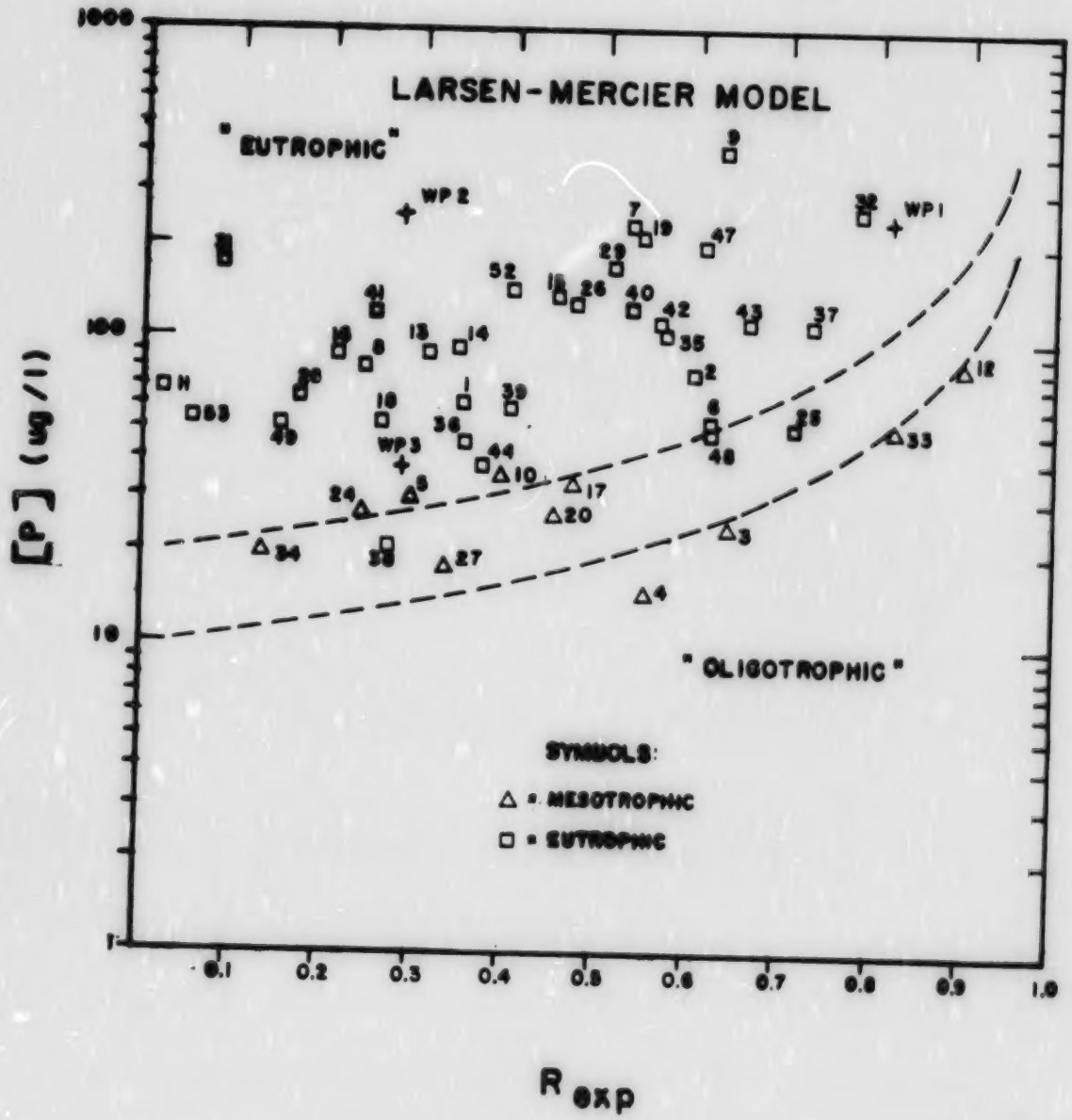
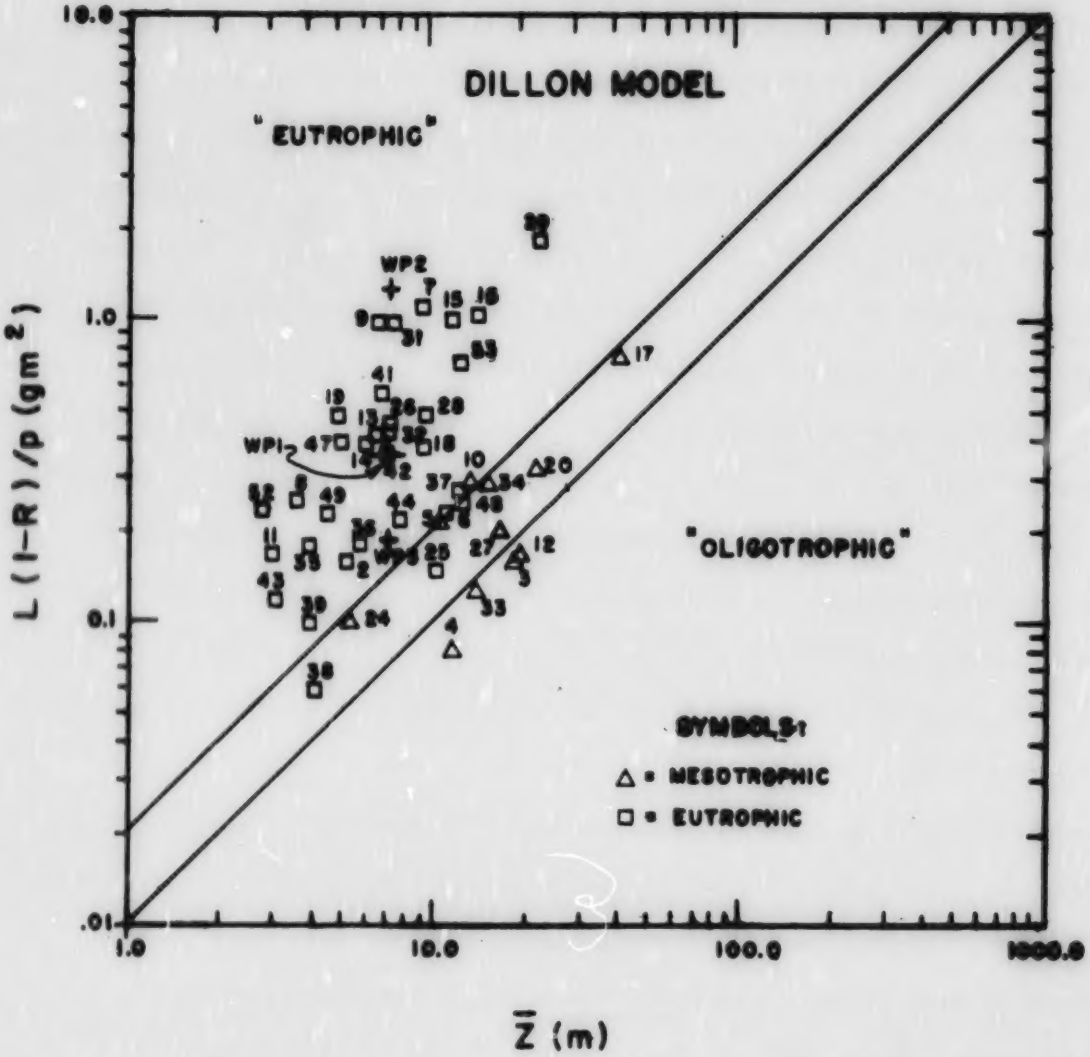


Fig. 6
(FROM REF. 10)



retention coefficient (R_p) as determined from the method described by Larsen and Mercier.[12] The theoretical value of 0.28 was much lower than the experimental coefficient of 0.81. The higher experimental coefficient reflects the transient status of the lake during the study period and will decrease as time passes. As the lake ages, phosphorus will complex with Fe^{+3} and accumulate on the bottom as a precipitate in increasing amounts. Reducing conditions in the hypolimnion under stratified conditions will reduce the Fe^{+3} to Fe^{+2} at an increasing rate as this Fe-P precipitate accumulates, thus solubilizing both the iron and the phosphorus. This will, in effect, increase the outflow of phosphorus from the reservoir and reduce the phosphorus retention coefficient to a constant steady state value. Results of WP2 were again plotted on Figures 4, 5, and 6, and all points plotted in the eutrophic zone. In fact, the Dillon model and the Larsen-Mercier model show that the lake will become more eutrophic as it approaches steady state conditions. Since more phosphorus would be present in the water column because of the increased solubilization, this result is not surprising.

In entry WP3, an attempt was made to determine the effect of reducing the phosphorus input from point sources in the Atlanta area. A 95% reduction in phosphorus from Atlanta point sources was assumed in calculating the input loads, and the theoretical phosphorus retention coefficient was used. Results were plotted against each of the three models and found to fall consistently within the eutrophic zone (well above the "dangerous level") although moving closer to the boundary between the eutrophic and mesotrophic zones.

The three models used above are <u>comparative</u>, not <u>predictive</u> models. That a particular lake plots in the euphotic zone is not nearly as signifi-

cant as its position relative to similar lakes on the same plot. The line separating the trophic level classifications should not be regarded as a precipice, but as an indefinite line separating the upper and lower levels of a sloping surface. Results from the application of these models must be judged quantitatively. Examination of Figures 3, 4, and 5 will reveal a significant and relative change in the status of West Point Lake with reduction in Atlanta's phosphorus input.

"Eutrophic" is often regarded as having a negative connotation. Visions of algae mats, aquatic plants rotting in the sun, and fish bellying-up in shallow waters seem to be associated with this term. A lake having such symptoms would indeed be classified eutrophic; however, the limnologists who developed these models use the term in its classical sense, meaning "highly productive." The eutrophic classification encompasses a wide range of waters and is just as descriptive of a good fishing lake as it is a swamp.

BACTERIOLOGICAL PARAMETERS

A summary of bacteriological data collected in and around West Point Lake during 1975 is presented in Tables 11 and 12. Table 11 shows monthly summaries for fecal coliform bacteria densities and incidences of Salmonella isolation. Table 12 lists the sampling stations, dates, and the specific Salmonella serotype(s) isolated. A complete list of fecal coliform data is given in Appendix C-2.

The fecal coliform bacteria indicator group is presently considered the most reliable bacterial indicator of fecal contamination. Fecal coliform density is indicative of the relative magnitude of fecal wastes from

TABLE 11
FECAL COLIFORM COUNTS
WEST POINT LAKE

Station	Location	Statistic	MONTH												1975
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Summary
CH-01	Chattahoochee River at Westpoint, GA, above U. S. 29	Number				5*					5				10
		Mininum				55					<2				<2
		Log Mean				123					<4.9				<25
		Maximum				590					34				590
CH-01A	Chattahoochee River at Westpoint, GA, above U. S. 29	Number	1	1		1	1		1	1	1				7
		Minimum	750	430		230	36		1,500	36	36				36
		Log Mean													176
		Maximum													1,500
CH-02.5B	Chattahoochee River near Dam	Number				5					5	1			11
		Minimum				10					<2	<30			<2
		Log Mean				46					<2.4				<12
		Maximum				112					<5				112
CH-03	Chattahoochee River at Maple Creek Mouth	Number				5*	1	2	2	2	6	1			19
		Minimum				30	<30	<30	<30	<30	<2	36			<2.0
		Log Mean				54		<30	<30	<30	<3.7				<18
		Maximum				146		<30	<30	<30	<30				146
CH-04	Wehadkee Ck., Hwy. 224 N, LaGrange	Number				3					5				8
		Minimum				70					<2				< 2
		Log Mean				338					2.4				15
		Maximum				2,500					<5				2,500
CH-05	Chattahoochee River, GA 238 W. of LaGrange	Number				5*	1	2	2	2	5	1			18
		Minimum				225	<30	<30	<30	<30	<2	<30			<2
		Log Mean				368		<30	<30	<30	2.4	<30			<30
		Maximum				750		<30	<30	<30	<5	<30			750
CH-06	Chattahoochee River, GA Hwy. 109, W. LaGrange	Number				5	1	2	2	2	1	1			14
		Minimum				420	<30	<30	<30	<30	<5	36			<5
		Log Mean				570		<30	<30	<30					<77
		Maximum				850		<30	<30	<30					850

Table 11, Fecal Coliform Counts, West Point Lake (continued)

Station	Location	Statistic	MONTH JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1975 Summary
CH-07	Chattahoochee River at LaGrange Water Intake	Number	1	1		6*	2	2	3	3	7	1			26
		Minimum	4300	23,000		570	36	<30	<30	<30	<2	91			<2
		Log Mean				1,627	73	<30	<55	490	5.1				121
		Maximum				4,300	150	<30	150	43,000	36				43,000
CH-08	Yellowjacket Creek S2098 W of LaGrange	Number				5*	1	2	2	2	6	1			19
		Minimum				60	<30	<30	<30	<30	<2	30			2
		Log Mean				475		<30	<30	<33	<3.7				32
		Maximum				2,700		<30	<30	36	<30				2,700
CH-08A	Jackson Ck., NW of LaGrange	Number				3									3
		Minimum				70									70
		Log Mean				453									453
		Maximum				3,400									3,400
CH-09	Yellowjacket Creek NE of LaGrange	Number				5					5				10
		Minimum				140					310				140
		Log Mean				828					1,173				986
		Maximum				5,200					3,950				5,200
CH-10	Chattahoochee River, GA Hwy 219 NW of LaGrange	Number				5*	1	2	1		6	1			18
		Minimum				2,000	91	<30	<36		<2	4,300			<2
		Log Mean				3,119		<52			<3.7				81
		Maximum				5,600		<91			<30				5,600
CH-11	New River, U. S. 27 S of Franklin	Number				5					5				10
		Minimum				90					90				90
		Log Mean				639					449				536
		Maximum				5,800					7,100				7,100
CH-12	Chattahoochee River, U. S. 27, Franklin	Number	1	1	1	6*	2	3	7	7	11				39
		Minimum	4,300	15,000	4,300	1,700	3,900	930	430	9	230				9
		Log Mean				4,278	6,022	2,095	1,025	846	1,089				1,674
		Maximum				43,000	9,300	4,300	4,300	23,000	8,200				43,000

Table 11, Fecal Coliform Counts, West Point Lake (continued)

Station	Location	Statistic	MONTH											1975
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Summary
CH-13	Wehadkee Cr. Hwy 238 SW LaGrange	Number				5	1	2	2	2	5	1			17
		Minimum				4	<30	<30	<30	<30	<2	<30			<2
		Log Mean				<6.7		<30	<30	<30	<4.1				<12
		Maximum				10		<30	<30	<30	<30				<30
CH-13A	Veasey Cr. at Confluence Stroud C	Number				2									2
		Minimum				<4									<4
		Log Mean				<6.3									<6.3
		Maximum				<10									<10
CH-14	Chattahoochee River Mo. of Brush Cr.	Number				4		1	1		6				12
		Minimum				800		930	430		110				110
		Log Mean				2,243					361				728
		Maximum				5,000					7,500				7,500
CH-15	Yellowjacket Cr. at Hwy 219	Number				5*					5				10
		Minimum				25					<2				<2
		Log Mean				230					<2.4				<24
		Maximum				5,600					<5				5,600
CH-16	Wehadkee Cr. near Gus Creek	Number				5*					5				10
		Minimum				100					6				6
		Log Mean				408					46				138
		Maximum				5,600					500				5,600
CH-DM	Chattahoochee River at D-M Mills	Number				5*									5
		Minimum				300									300
		Log Mean				907									907
		Maximum				1,800									1,800
CH-LG	Chattahoochee River Above LaGrange WTP	Number				5*									
		Minimum				550									
		Log Mean				948									
		Maximum				1,450									

*Salmonella serotype isolated

TABLE 12

Salmonella SEROTYPES ISOLATED DURING THE APRIL AND SEPTEMBER PHASES OF THE WEST POINT LAKE STUDY

Station	Date	Salmonella Serotypes Isolated	Date	*Salmonella* Serotypes Isolated
CH-1	4/16/75	*S. muenchen*	9/17/75	1/
CH-2		1/		none isolated
CH-3		*S. enteritidis*		
CH-4		1/		
CH-5		none isolated		
CH-7		*S. muenchen*		
CH-8		*S. anatum*, *S. muenchen*		
CH-10		*S. muenchen*, *S. Mississippi*, *S. litchfield*		
CH-12		*S. infantis*		
CH-13		1/		
CH-14		1/		
CH-15		*S. muenchen*, *S. typhimurium*		
CH-16		*S. menston*		1/
LG		*S. enteritidis*, *S. Mississippi*		1/
DM		*S. agona*, *S. Mississippi*		1/

1/ - No sample was collected at this station.

human and animal sources. Though generally viewed as non-pathogenic, fecal coliform bacteria indicate the probable presence of enteric pathogens. Most water quality bacterial standards are based on fecal coliform bacteria. The bacterial standard for recreational waters in the State of Georgia (West Point Lake waters are classified for recreational use) is for the geometric mean (fecal coliform density) not to exceed 200 organisms per 100 ml of water (200/100 ml).

Qualitative determinations to detect Salmonella were made. Salmonella is a large serologically-related genus comprised of over 1,300 serotypes. Salmonella is probably the easiest enteric pathogen to isolate from environmental waters. All Salmonella are considered pathogenic to man and animals. The presence of Salmonella is proof of fecal contamination from either man or animals, and establishes the potential of disease contraction resulting from water ingestion. It is important to note that the inverse of this statement is not true. Failure to isolate Salmonella does not establish that the water is free of pathogenic organisms.

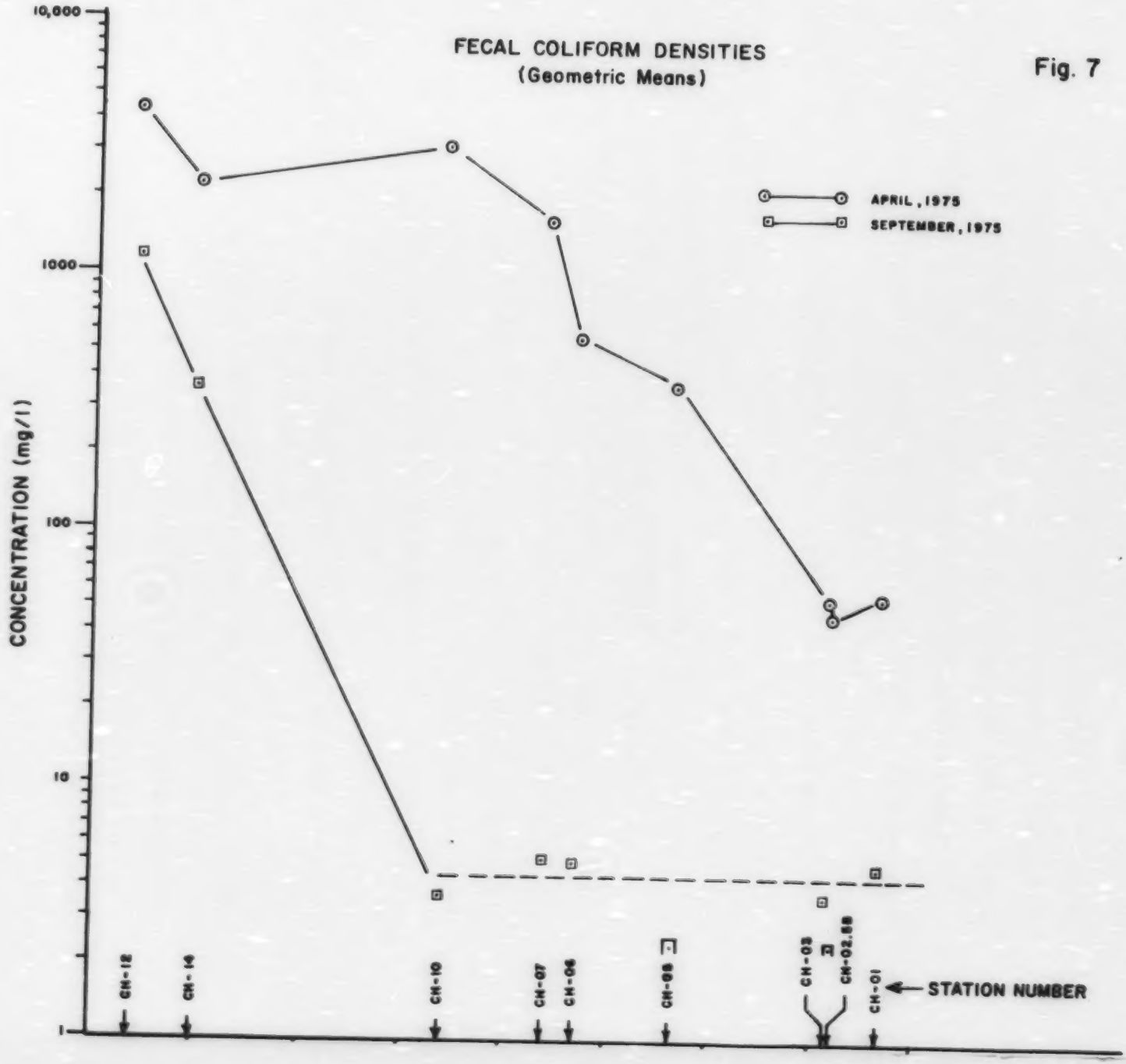
Just before and during the April intensive study, when the lake was partially full, three to five inches of rainfall occurred over much of the study area (Table 5). Fecal wastes transported by the subsequent runoff resulted in the high fecal coliform densities observed during this period. Fifteen of the 18 stations upstream from the dam had geometric mean coliform densities in excess of the recommended level of 200/100 ml for recreational waters (Table 11). Salmonella were isolated at all stations sampled during April (Table 12). These high fecal coliform densities and Salmonella isolations are not surprising in view of the extreme runoff conditions which existed during the April study period.

From May through the end of 1975, however, relatively few violations of the bacterial recreational criterion were observed. During September only four stations had mean fecal coliform densities greater than 200/100 ml: CH-12 and CH-14, the two uppermost stations on the Chattahoochee River, CH-09 on upper Yellowjacket Creek, and CH-11 on New River. With the exception of CH-14, near the headwaters of the lake, all of these stations are on flowing streams, not in the lake proper. The high fecal coliform densities in the Chattahoochee River are the result of the upstream metropolitan areas. High counts at the other two stations probably resulted from upstream waste sources and/or runoff. No Salmonella were isolated at any station sampled during the September study.

Figure 7 is a plot of observed mean fecal coliform densities during April (partially filled conditions) and September (completely filled). A dramatic difference in the two profiles is evident. As the inflow counts are of the same order of magnitude, the decrease in fecal coliform densities during September can only be attributed to the effects of full impoundment. Longer travel time and sedimentation are the major reasons for the decrease in fecal coliform densities. With the exception of Stations CH-09 and CH-12 (headwater stations on different arms of the lake), geometric mean fecal coliform densities at all lake stations during the September study were well below the recreational bacterial standard. These low fecal coliform densities should reflect the bacterial quality of the lake under normal conditions.

OXYGEN RELATED PARAMETERS AND TEMPERATURE STRATIFICATION

Oxygen related parameters studied during the April and September intensive studies included dissolved oxygen (DO), total organic carbon

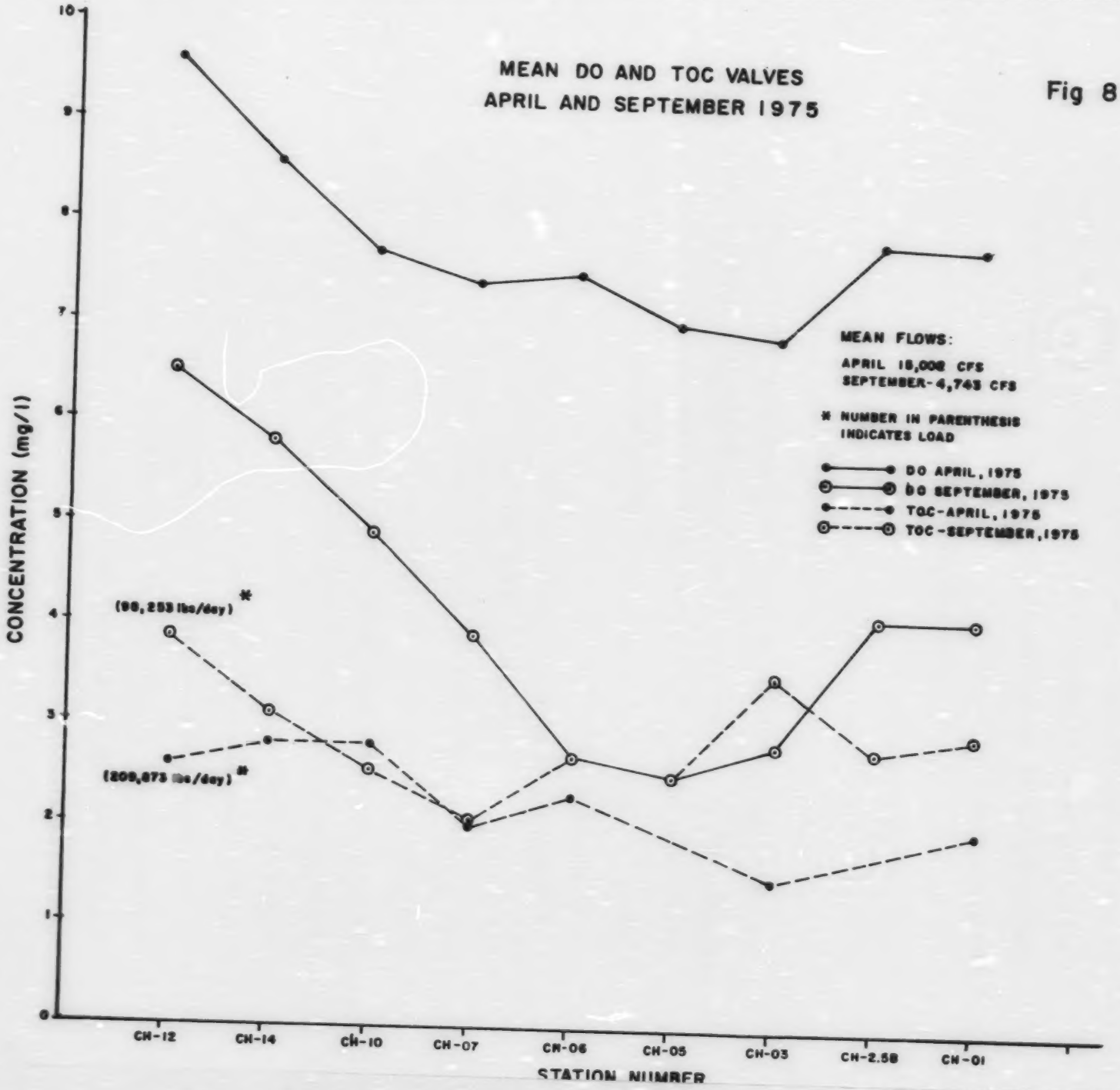

FECAL COLIFORM DENSITIES
(Geometric Means)
Fig. 7
APRIL, 1975
SEPTEMBER, 1975
CONCENTRATION (mg/l)
10,000
1000
100
10
1
CH-12
CH-14
CH-10
CH-07
CH-06
CH-05
CH-03
CH-02.58
CH-01
STATION NUMBER

(TOC), and five day biochemical oxygen demand (BOD_5). During the September study BOD_5 was measured only once per sampling station because of limited laboratory space. Consequently, BOD_5 to TOC correlations for all the data were low (correlation coefficient = 0.47). Since only limited BOD_5 data were available for the September study, it was necessary to use TOC in the following analysis as an indication of oxygen demanding load.

The major input of oxygen demanding materials to West Point Lake is the Chattahoochee River. TOC concentrations in the Chattahoochee River at Station CH-12 were higher during the September study than during the April study (3.85 mg/l to 2.6 mg/l, respectively) probably because the lower September flows resulted in less dilution of Atlanta metropolitan area point source discharges. It should be noted, however, that the TOC load during April was more than twice that of the September study (Figure 8). This can be attributed, in some degree, to non-point source runoff during the high flow period.

During the April study, TOC concentrations decreased slightly from the upstream to the downstream end of the lake. The influence of Yellowjacket Creek and the LaGrange STP can be seen at Station CH-06 (Figure 8). During the September study, TOC concentrations decreased steadily from the upper end of the lake (Station CH-12) to the LaGrange water supply intake (near Station CH-07). TOC then increased significantly in the stratified areas of the lake, probably because organics from the sediments dissolve under anaerobic (reducing) conditions.

As would be expected, mean DO's for the April study were higher than September because of both the lower water temperatures and the lower TOC concentration. The April trend was toward slightly lower concentrations in the downstream area of the lake. The only station in


MEAN DO AND TOC VALVES
APRIL AND SEPTEMBER 1975
Fig 8
CONCENTRATION (mg/l)
STATION NUMBER
CH-12
CH-14
CH-10
CH-07
CH-06
CH-05
CH-03
CH-2.58
CH-01
MEAN FLOWS:
APRIL 18,002 CFS
SEPTEMBER-4,743 CFS
* NUMBER IN PARENTHESIS INDICATES LOAD
DO APRIL, 1975
DO SEPTEMBER, 1975
TOC-APRIL, 1975
TOC-SEPTEMBER, 1975
(98,253 lbs/day) *
(209,873 lbs/day) *

April reporting zero oxygen in the hypolimnion was Station CH-13, which was the only station showing signs of stratification at that time. During the September study, mean DO's decreased rapidly from Station CH-12 to Station CH-06, then leveled off from CH-06 to the dam (Figure 8). DO standards violations were recorded at all outflow stations (CH-2.5B, CH-01A, and CH-01) during the September study. Nearly all of the stations in the stratified area of the lake (CH-03, CH-05, CH-06, CH-08, and CH-13) were depleted of oxygen in the hypolimnion in September. Stations CH-07 and CH-10 had concentrations of less than 1.0 mg/l on the bottom, at least once during the September study.

The fall turn-over of the lake began during the September study (refer to the table on page 11 in the summary section). The effects of this destratification on DO and temperature are seen in Figures 9, 10, 11, and 12. These figures show that the lake was stratified as far upstream as Station CH-10 on September 16, 1976, and there was a large volume of oxygen depleted water which reached nearly to Station CH-10. By September 19, there was only weak stratification at Station CH-07 and the area of oxygen depletion had diminished to a small zone near Station CH-05. Only Station CH-03 remained stratified by September 20.

A criterion[13] which may be used to classify a stratified lake is the densimetric Froude number, which may be approximated by:

$$F_D = \frac{\sqrt{Po}\ L\ Q}{gB\ D\ V} = \frac{320\ L\ Q}{D\ V}$$

where F_D = Densimetric Froude number, dimensionless

L = Reservoir Length = 48,280 m

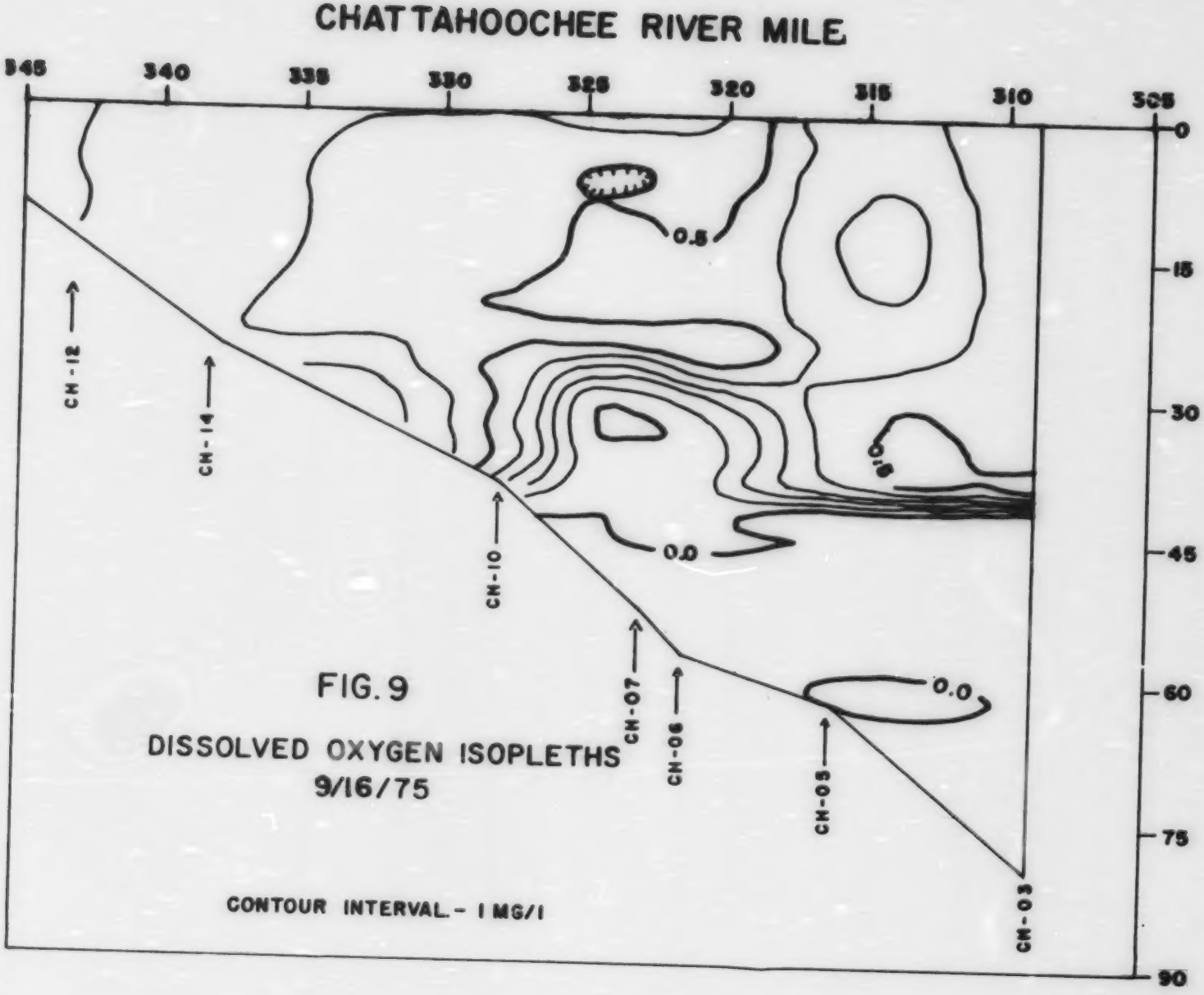


FIG. 9

DISSOLVED OXYGEN ISOPLETHS
9/16/75

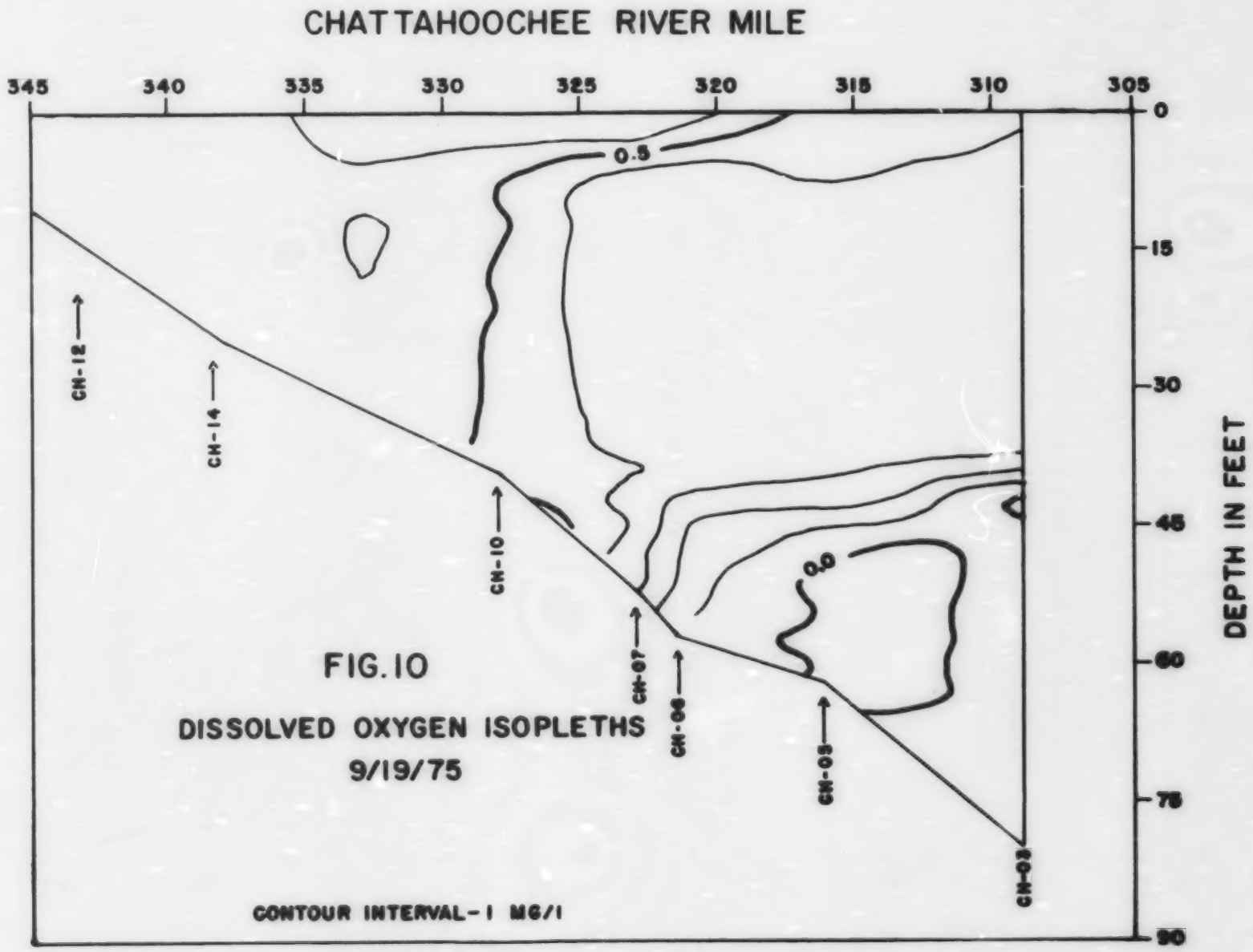


FIG. 10

DISSOLVED OXYGEN ISOPLETHS
9/19/75

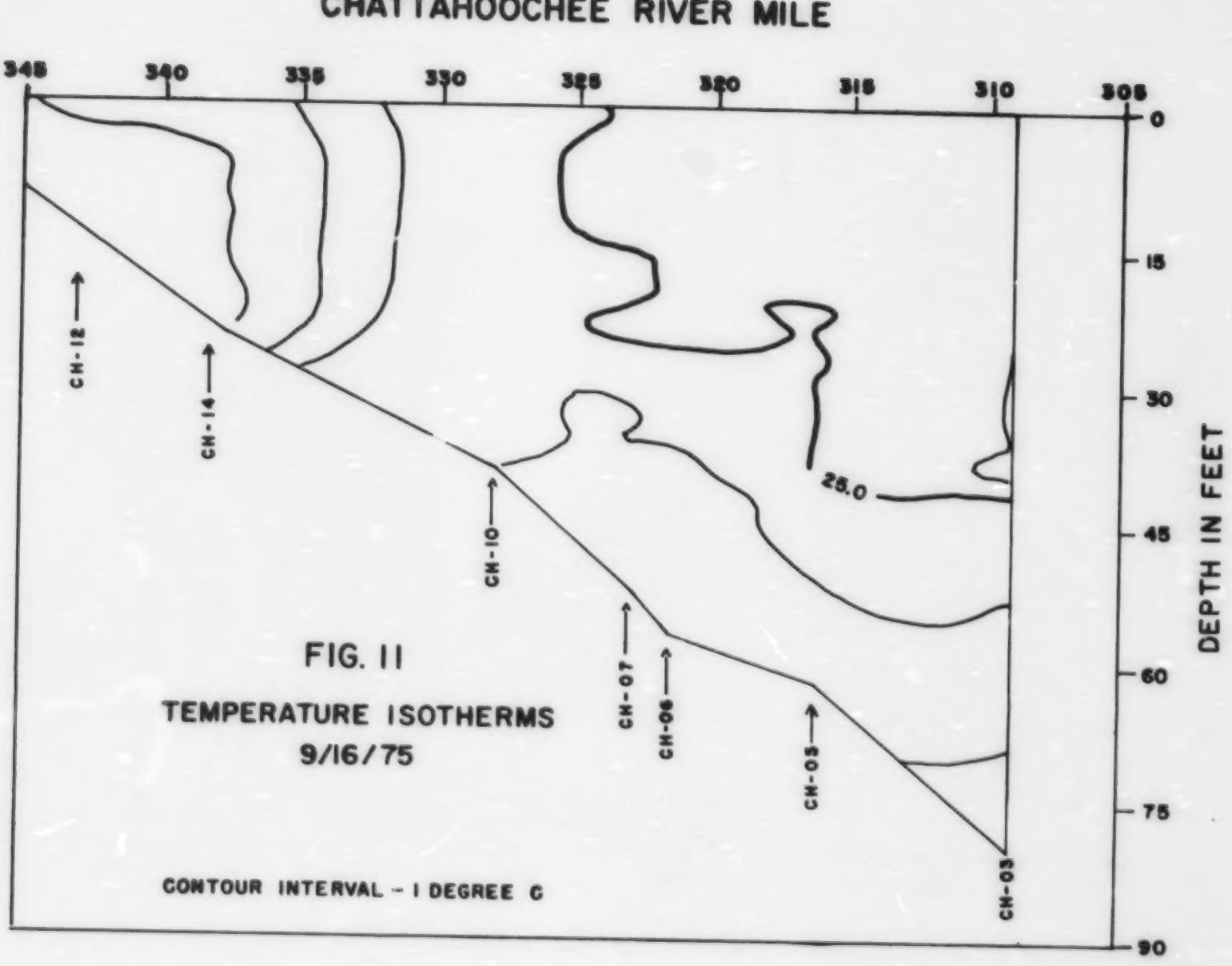
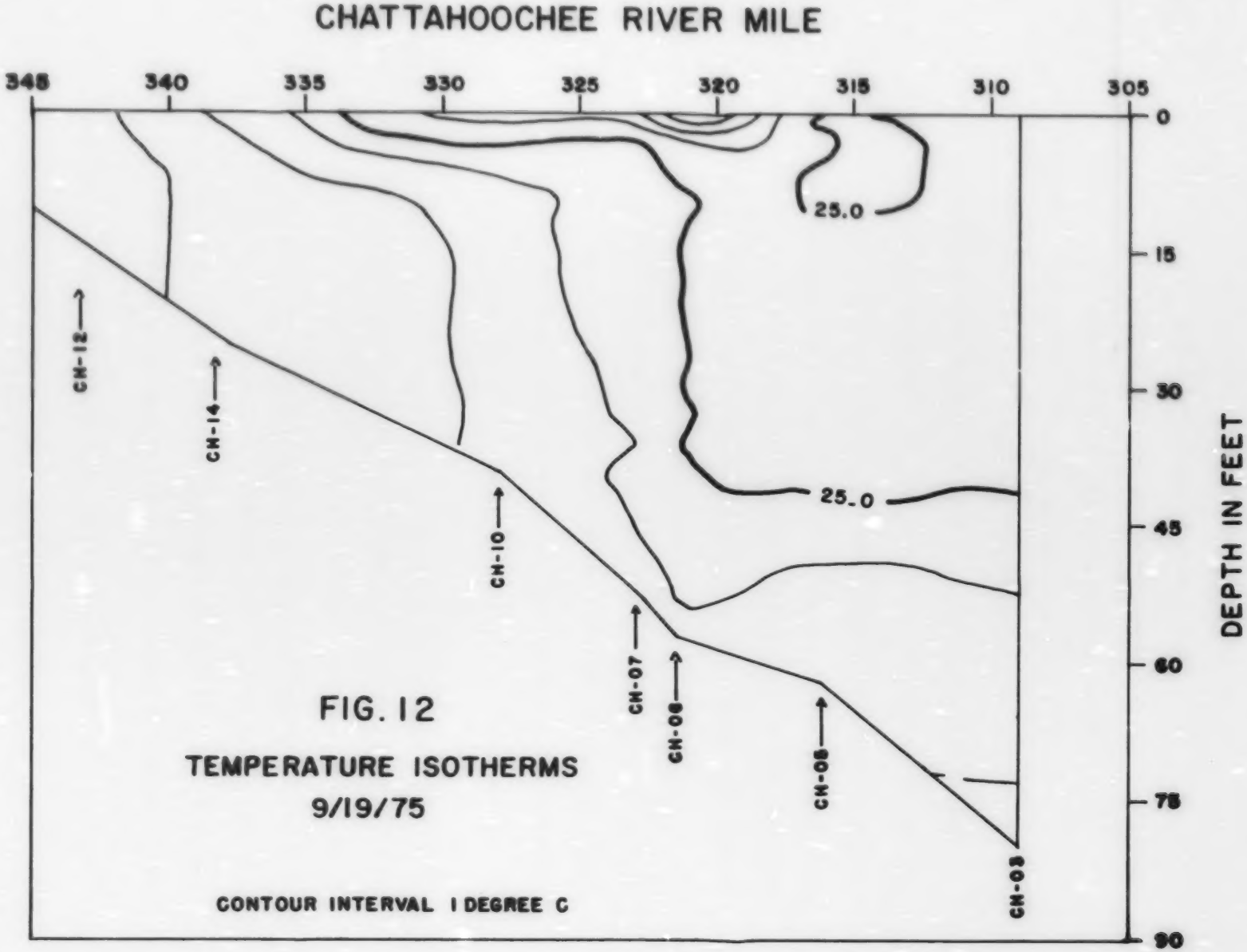


FIG. 11

TEMPERATURE ISOTHERMS
9/16/75


CHATTAHOOCHEE RIVER MILE
345
340
335
330
325
320
315
310
305
0
15
30
45
60
75
90
DEPTH IN FEET
25.0
25.0
CH-12
CH-14
CH-10
CH-07
CH-06
CH-05
CH-03
FIG. 12
TEMPERATURE ISOTHERMS
9/19/75
CONTOUR INTERVAL I DEGREE C

Q = Volumetric discharge = 158 m^3/sec

D = Mean reservoir depth = 7.15 m

V = Reservoir volume = 7.31 x $10^8 m^3$

Po = Reference density = 1,000 kg/m^3

B = Average density gradient in lake = 10^{-3} kg/m^4

g = Gravitational constant = 9.8 m/sec^2

For values of $F_D << 1/\pi$*, a lake is classified as strongly stratified and for values of $F_D >> 1/\pi$, a lake will be completely mixed.* Values of F_D for the weakly-stratified case are of the order of $1/\pi$, or 0.32. Substituting the values for West Point Lake given above yields a F_D of 0.47. Based on this criterion, West Point Lake may be considered to be weakly stratified. Such a lake would be expected to have isotherms which are tilted along the longitudinal axis, as opposed to the deep, strongly stratified lake which would be characterized by horizontal isotherms and the completely mixed lake whose isotherms are vertical. Figure 11 shows the isotherms in West Point Lake tilted along the longitudinal axis just prior to the beginning of destratification.

NUTRIENTS

The major input of nutrients to West Point Lake is the Chattahoochee River. Total nitrogen concentrations in the Chattahoochee River at Station CH-12 averaged 0.60 mg/l and 1.33 mg/l for the April and September studies, respectively. Corresponding total phosphorus values were 0.12 mg/l and 0.29 mg/l. Atlanta metropolitan area point sources are the source of approximately 80 percent of the total phosphorus entering the lake through

* The symbols >> and << mean "much less than" and "much greater than", respectively.

the Chattahoochee River [14]. Nutrient inputs from the other tributaries to the lake (New River, Yellowjacket Creek, Wehadkee Creek) varied between 0.13 and 0.62 mg/l total nitrogen and 0.03 and 0.16 mg/l total phosphorus (see Table 13 for data).

A general decreasing trend in total nitrogen can be observed (see Figure 13) downstream from Station CH-12 (average for the April and September study of 0.98 mg/l) to Station CH-05 (0.62 mg/l). Between Stations CH-05 and CH-03, there is a slight increase in the average total nitrogen concentration to 0.75 mg/l. This increase may be caused by dissolution of NH_3-N and organic nitrogen from sediments under anaerobic conditions.

Effects of the reducing environment in the lake are apparent from the almost linear decrease in $NO_2 + NO_3$ nitrogen from an average for the two studies of 0.63 mg/l at Station CH-12 to 0.10 mg/l at Station CH-2.5B just downstream from the dam (Figure 13). This change in oxidation state of the nitrogen species can be attributed directly to the reducing condition resulting from dissolved oxygen depletion in the hypolimnion. This is shown by comparing the data for the April study (virtually unstratified) to that of the September study (stratified - beginning turn-over). Figure 14 shows that the average $NO_2 + NO_3$ nitrogen concentration for the September study decreased steadily from 0.94 mg/l at Station CH-12 to 0.01 mg/l at Station CH-2.5B. On the other hand, the NH_3-N concentration for the same period (Figure 15) decreased slightly from 0.19 mg/l at Station CH-12 to 0.14 at Station CH-10 (the upstream limit of stratification), then began a sharp increase until reaching a value of 0.58 mg/l at Station CH-03. The initial decrease of the inorganic nitrogen forms in the headwaters of the lake is probably a result of plant uptake. The changes in the

TABLE 13
MEANS AND RANGES OF NUTRIENT CONCENTRATIONS FOR THE APRIL AND SEPTEMBER STUDIES

	TKN (mg/l)		NH_3-N (mg/l)		NO_2+NO_3 (mg/l)		Total Phosphorus (mg/l)		Dissolved Phosphorus (mg/l)	
	April	September	April	September	April	September	April	September	April	September
Inflow Tributaries										
Chattahoochee R. (CH-12)	0.18-0.45 (0.26) [2]	0.02-0.59 (0.40)	0.02-0.10 (0.05)	0.09-0.34 (0.20)	0.28-0.41 (0.34)	0.69-1.18 (0.93)	0.09-0.18 (0.12)	0.21-0.45 (0.29)	0.03-0.18 (0.87)	0.13-0.20 (0.16)
New R. (CH-11)	0.06-0.18 (0.12)	0.01-0.22 (0.13)	0.01-0.04 (0.02)	0.01-0.03 (0.02)	0.07-0.13 (0.10)	0.12-0.17 (0.14)	0.04-0.06 (0.04)	0.04-0.09 (0.06)	-- --	0.02-0.03 (0.02)
Yellowjacket Cr. (CH-09)	0.10-0.23 (0.15)	0.10-0.03 (0.15)	0.01-0.03 (0.02)	0.02-0.04 (0.03)	0.09-0.13 (0.11)	0.20-0.32 (0.25)	0.03-0.08 (0.05)	0.06-0.16 (0.09)	0.02-0.02 [3] (0.02)	0.03-0.03 (0.03)
Wehadkee Cr. (CH-16)	0.10-0.18 (0.13)	0.10-0.26 (0.18)	0.01-0.02 (0.02)	0.03-0.04 (0.04)	0.08-0.15 (0.12)	0.08-0.13 (0.10)	0.03-0.04 (0.03)	0.03-0.05 (0.04)	0.02-0.02 [3] (0.02)	0.02-0.03 (0.02)
Lake, main body [1]	0.10-1.57 (0.26)	0.10-3.65 (0.69)	0.01-1.33 (0.09)	0.02-2.95 (0.47)	0.01-0.41 (0.23)	0.01-0.77 (0.23)	0.02-0.16 (0.08)	0.02-0.28 (0.07)	0.01-0.09 (0.04)	0.01-0.06 (0.04)
Outflow Tributaries										
Chattahoochee R. (CH-2.5)	0.23-0.78 (0.36)	0.30-0.61 (0.41)	0.02-2.95 (0.47)	0.15-0.30 (0.20)	0.29-0.32 (0.31)	0.01-0.03 (0.01)	0.05-0.06 (0.06)	0.03-0.05 (0.04)	0.04-0.04 [3] (0.04)	0.02-0.03 (0.02)

[1] Includes stations CH-03, CH-13, CH-13A, CH-05, CH-06, CH-07, CH-L6, CH-DM, CH-08, CH-08A, and CH-10.
[2] Coding convertion as follows - Minimum observed concentration - Maximum observed concentration (Mean of all observed concentrations)
[3] Only one observation.

Fig. 13

NITROGEN AND PHOSPHORUS SPECIES
AVERAGE OF APRIL AND SEPTEMBER, 1975 AVERAGES

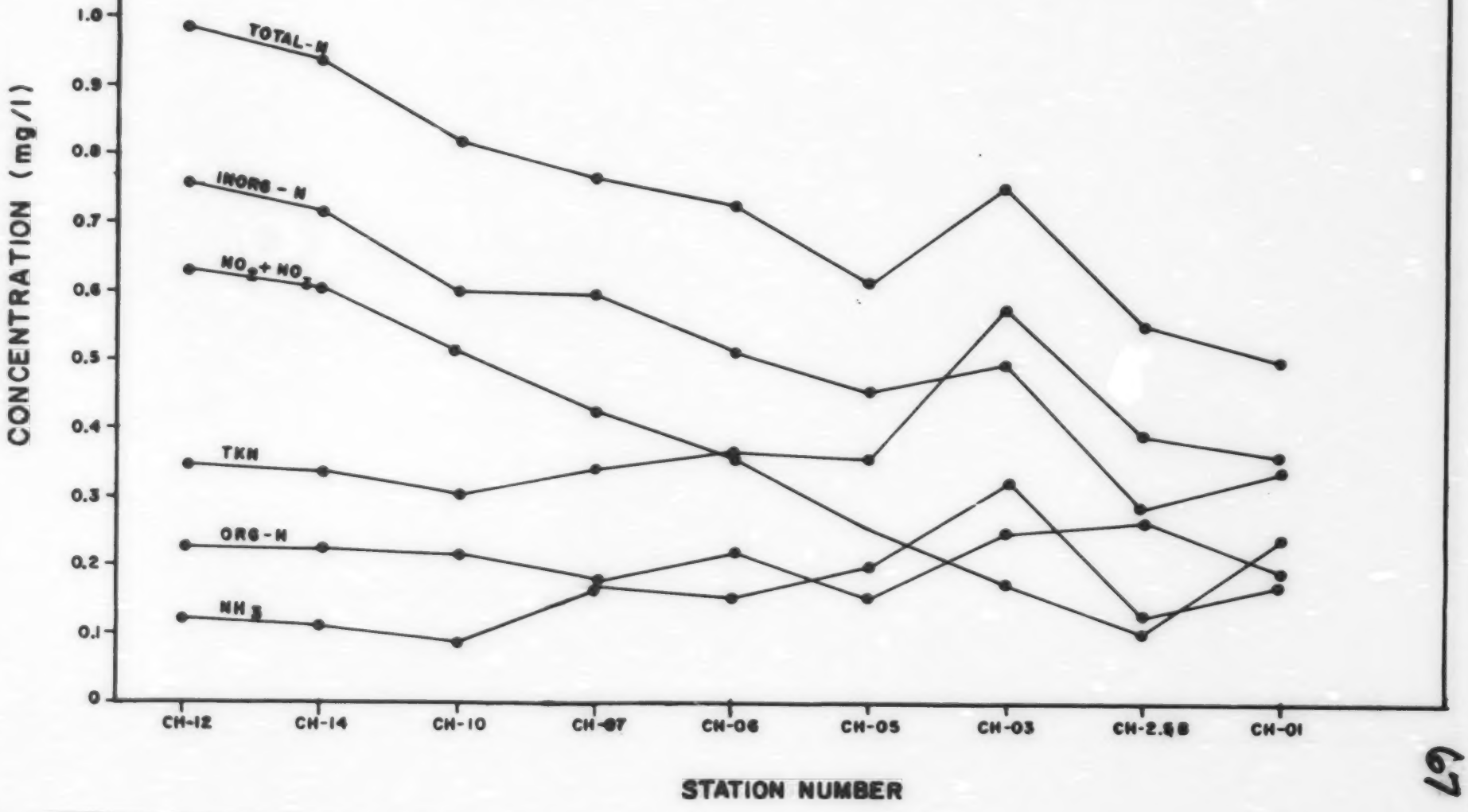


Fig. 14

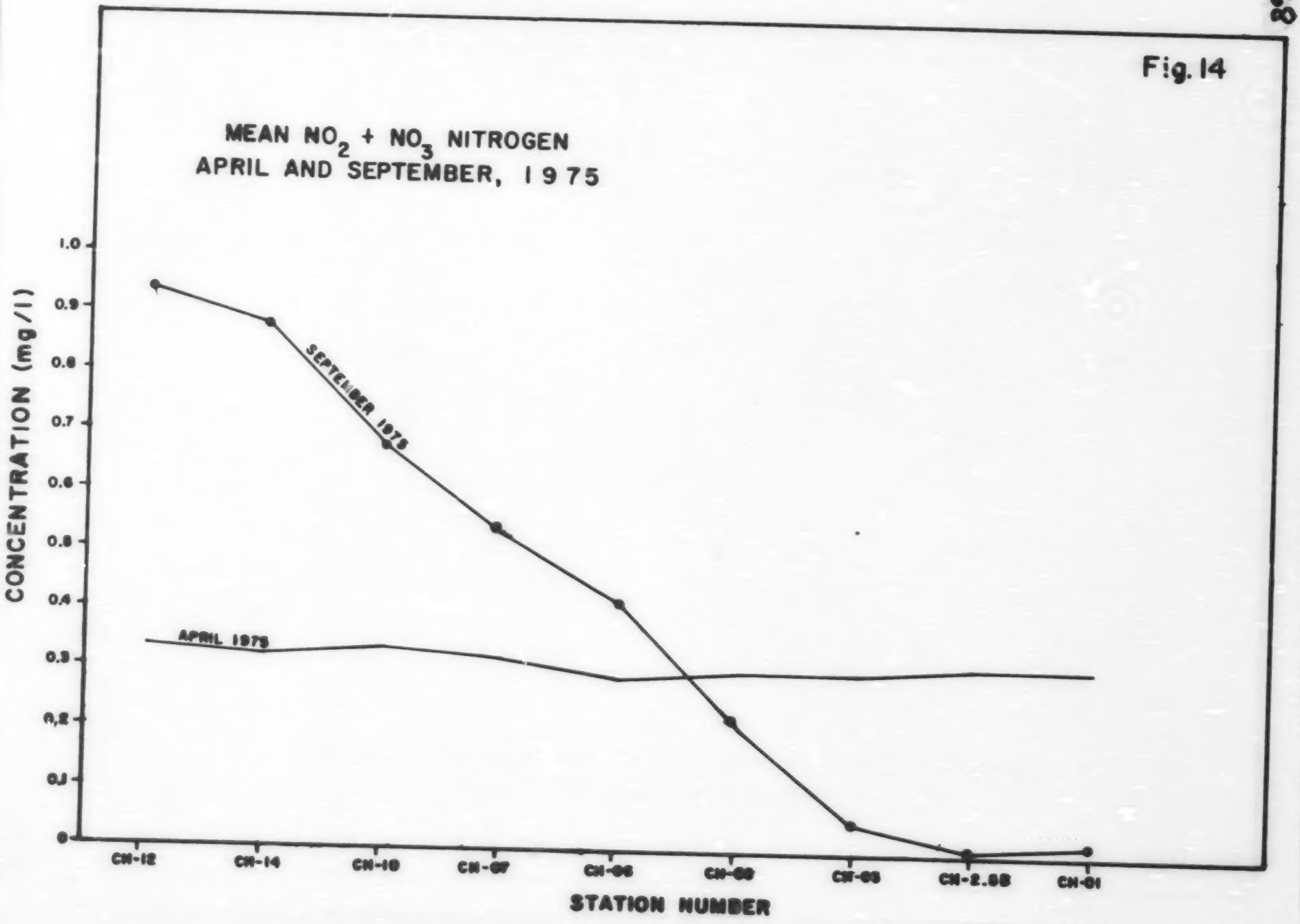
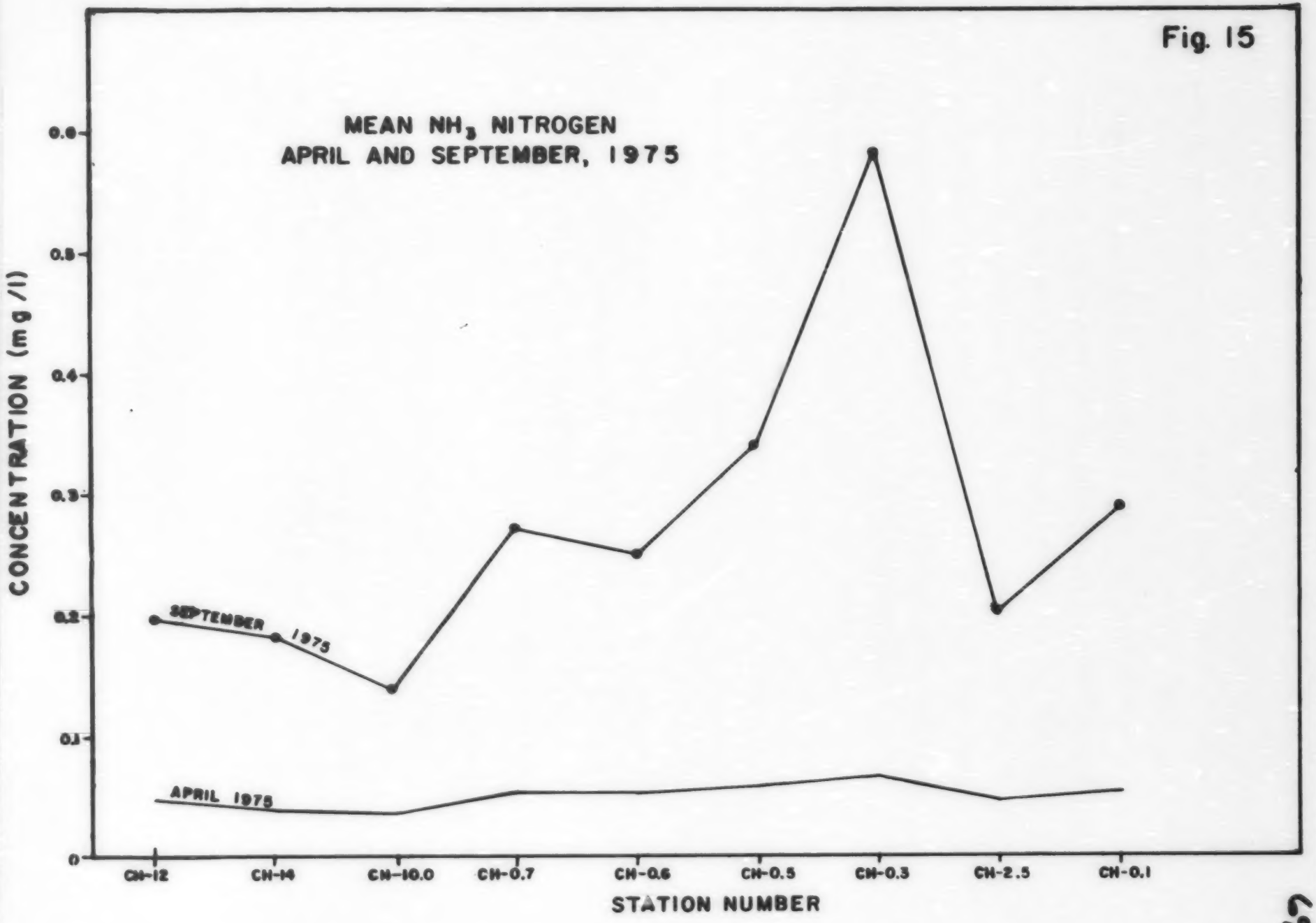

MEAN NO_2 + NO_3 NITROGEN
APRIL AND SEPTEMBER, 1975
CONCENTRATION (mg/l)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
SEPTEMBER 1975
APRIL 1975
CH-12
CH-14
CH-10
CH-07
CH-06
CH-02
CH-05
CH-2.88
CH-01
STATION NUMBER

Fig. 15


MEAN NH_3 NITROGEN
APRIL AND SEPTEMBER, 1975
CONCENTRATION (mg/l)
0.6
0.5
0.4
0.3
0.2
0.1
0
SEPTEMBER 1975
APRIL 1975
CH-12
CH-14
CH-10.0
CH-0.7
CH-0.6
CH-0.5
CH-0.3
CH-2.5
CH-0.1
STATION NUMBER

stratified portion of the lake are attributable mainly to the reducing environment.

Average total phosphorus concentrations at Station CH-12 were 0.12 mg/l and 0.29 mg/l for the April and September studies, respectively. Decreases in total phosphorus concentrations between Stations CH-12 and CH-07 correspond closely with decreases in suspended solids to which phosphorus readily adsorbs (Figure 16). Average total phosphorus concentrations from Station CH-07 to the dam for both studies remained very near to the overall lake average of 0.075 mg/l. Average dissolved phosphorus concentrations were in the vicinity of 0.04 mg/l at all stations from CH-10 to the dam during both studies.

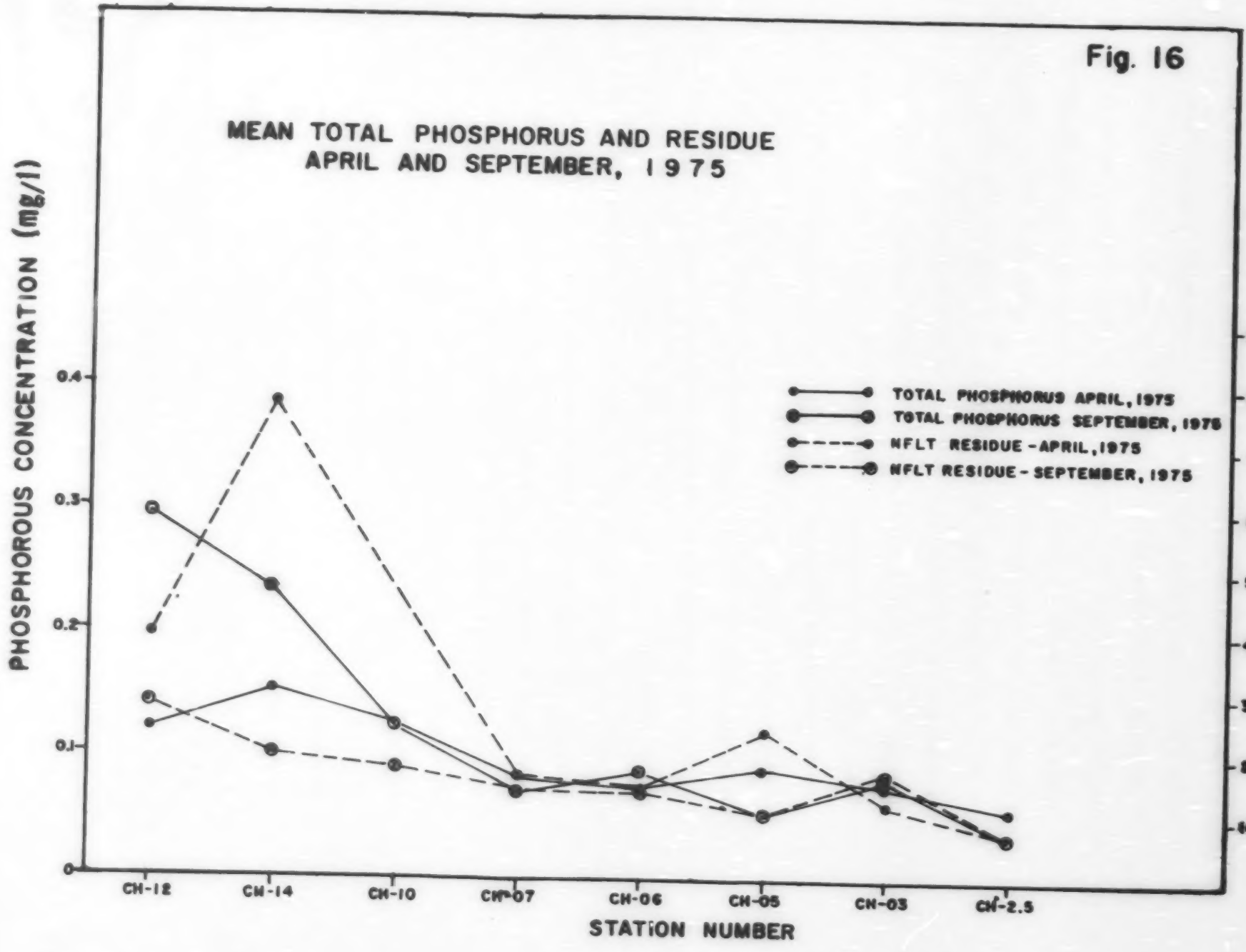
During the April study, total phosphorus accumulated in the lake at a rate of 4.1 gm/m^2/year* while total nitrogen was exported from the lake at a rate of 10.7 gm/m^2/year. During the September study period, both total phosphorus and total nitrogen were trapped (accumulated) in the lake at rates of 9.4 gm/m^2/year and 36 gm/m^2/year, respectively. Additional discussion of the accumulation of phosphorus in the lake can be found in the "Eutrophication Potential" section.

METALS

Total and dissolved iron and manganese were the only metals investigated during the West Point Lake studies. Reasons for investigating these metals were (1) that high concentrations we have expected in the hypolimnion under anaerobic (reducing) conditions and (2) the possible adverse effects of such high concentrations on downstream water supplies.

* The Vollenweider, Larsen-Mercier, and Dillon models all use areal loading, i.e., gm/m^2/yr. For consistency, areal values were used in the accumulation-export comparisons.

Fig. 16


MEAN TOTAL PHOSPHORUS AND RESIDUE
APRIL AND SEPTEMBER, 1975
PHOSPHOROUS CONCENTRATION (mg/l)
NFLT RESIDUE CONCENTRATION (mg/l)
TOTAL PHOSPHORUS APRIL, 1975
TOTAL PHOSPHORUS SEPTEMBER, 1975
NFLT RESIDUE - APRIL, 1975
NFLT RESIDUE - SEPTEMBER, 1975
0.4
0.3
0.2
0.1
0
90
80
70
60
50
40
30
20
10
CH-12
CH-14
CH-10
CH-07
CH-06
CH-05
CH-03
CH-2.5
STATION NUMBER

During the April study, the lake showed signs of stratification at only one station, CH-13 on Wehadkee Creek. The highest concentrations of both Fe and Mn recorded during this period were found in the bottom samples at this station (Table 14). The general trend for Fe during the April study was for decreased concentrations from the upstream to the downstream end of the lake. Only the influence of Yellowjacket Creek between Stations CH-07 and CH-06 interrupted this trend (Figures 17 and 18). Manganese concentrations, on the other hand, decreased sharply from Station CH-12 to Station CH-14. They then continued to decrease steadily but slowly between Stations CH-14 and CH-06. Between Stations CH-06 and CH-03, concentrations of dissolved manganese increased slightly, probably because of the reducing conditions associated with the stratification at Station CH-13 (see map in Appendix E). The concentration of dissolved manganese would be expected to increase more rapidly than iron, because of its lower oxidation potential.

During the September study, stratification reached upstream as far as Station CH-10 at the beginning of the week, but destratification (turnover) began to occur toward the end of the study. High concentrations of both iron and manganese were found in the hypolimnion at all stations where anaerobic conditions occurred (Table 14). A maximum concentration of 18,250 ug/l (weekly mean of bottom samples) occurred in the hypolimnion at Station CH-08. The general trend during the September study was towards increased concentrations of both Fe and Mn from the upstream to the downstream end of the lake. Iron concentrations in the lake discharge (Station CH-2.5B) were slightly higher in September than in April (939 ug/l and 792 ug/l respectively) but did not approach the extreme concentration

TABLE 14

MEAN CONCENTRATIONS OF IRON AND MANGANESE DURING THE APRIL AND SEPTEMBER STUDY PERIODS

	APRIL STUDY							
	Top				Bottom			
	Total Fe µg/l	Dis. Fe µg/l (*)	Total Mn µg/l	Dis. Mn µg/l (*)	Total Fe µg/l	Dis. Fe µg/l (*)	Total Mn µg/l	Dis. Mn µg/l (*)
Inflow Streams								
Chattahoochee R.								
CH-12	3318	459(14)	173	54(13)	—	—	—	—
New R.								
CH-11	1550	295(19)	118	38(32)	—	—	—	—
Yellowjacket Cr.								
CH-09	2460	448(18)	238	185(79)	—	—	—	—
CH-15	1980	424(21)	239	217(91)	—	—	—	—
CH-08	2180	261(12)	260	215(83)	2630	260(10)	522	261(50)
Wehadkee Cr.								
CH-16	1855	288(16)	210	133(63)	—	—	—	—
CH-04	1450	320(22)	129	85(66)	—	—	—	—
CH-13	1695	482(28)	589	146(25)	6750	3860(57)	3183	2835(89)
Main Lake								
CH-14	1903	134(7)	130	13(10)	—	—	—	—
CH-10	1430	152(11)	109	35(32)	2012	160(8)	138	35(25)
CH-07	862	182(21)	79	48(61)	725	145(20)	85	55(65)
CH-06	955	167(17)	96	47(49)	1169	152(13)	112	42(38)
CH-05	930	159(17)	115	95(83)	1725	177(10)	138	110(80)
CH-03	780	181(23)	137	115(84)	1140	256(22)	155	121(78)
Outflow Stream								
Chattahoochee R.								
CH-2.5B	792	272(34)	135	118(87)	—	—	—	—

TABLE 14, MEAN CONCENTRATIONS OF IRON AND MANGANESE DURING THE APRIL AND SEPTEMBER STUDY PERIODS (CONTINUED)

	SEPTEMBER STUDY							
	Top				Bottom			
	Total Fe µg/l	Dis. Fe µg/l (*)	Total Mn µg/l	Dis. Mn µg/l (*)	Total Fe µg/l	Dis. Fe µg/l (*)	Total Mn µg/l	Dis. Mn µg/l (*)
Inflow Streams								
Chattahoochee R.								
CH-12	1236	153(12)	110	34(31)	--	--	--	--
New R.								
CH-11	1416	244(17)	412	345(84)	--	--	--	--
Yellowjacket Cr.								
CH-09	2098	239(11)	498	228(46)	--	--	--	--
CH-15	660	128(19)	545	258(66)	--	--	--	--
CH-08	500	56(11)	584	334(57)	18258	16492(90)	5516	5038(91)
Wehadkee Cr.								
CH-16	2166	320(15)	477	398(83)	--	--	--	--
CH-04	418	98(23)	164	35(21)	--	--	--	--
CH-13	315	68(22)	170	10(6)	14898	13825(93)	3623	3343(92)
Main Lake								
CH-14	942	200(21)	136	108(79)	--	--	--	--
CH-10	401	75(19)	135	64(47)	838	126(15)	342	242(71)
CH-07	341	43(13)	75	20(26)	719	217(30)	1232	1166(97)
CH-06	214	39(18)	114	23(20)	2783	1532(55)	1013	1013(100)
CH-05	185	73(39)	106	16(15)	2123	250(12)	1064	943(88)
CH-03	221	103(47)	153	14(9)	11988	11320(94)	2920	2053(70)
Outflow Stream								
Chattahoochee R.								
CH-2.5B	939	333(35)	363	265(73)	--	--	--	--

MONTHLY MEANS

TOTAL & DISSOLVED IRON

Fig 17

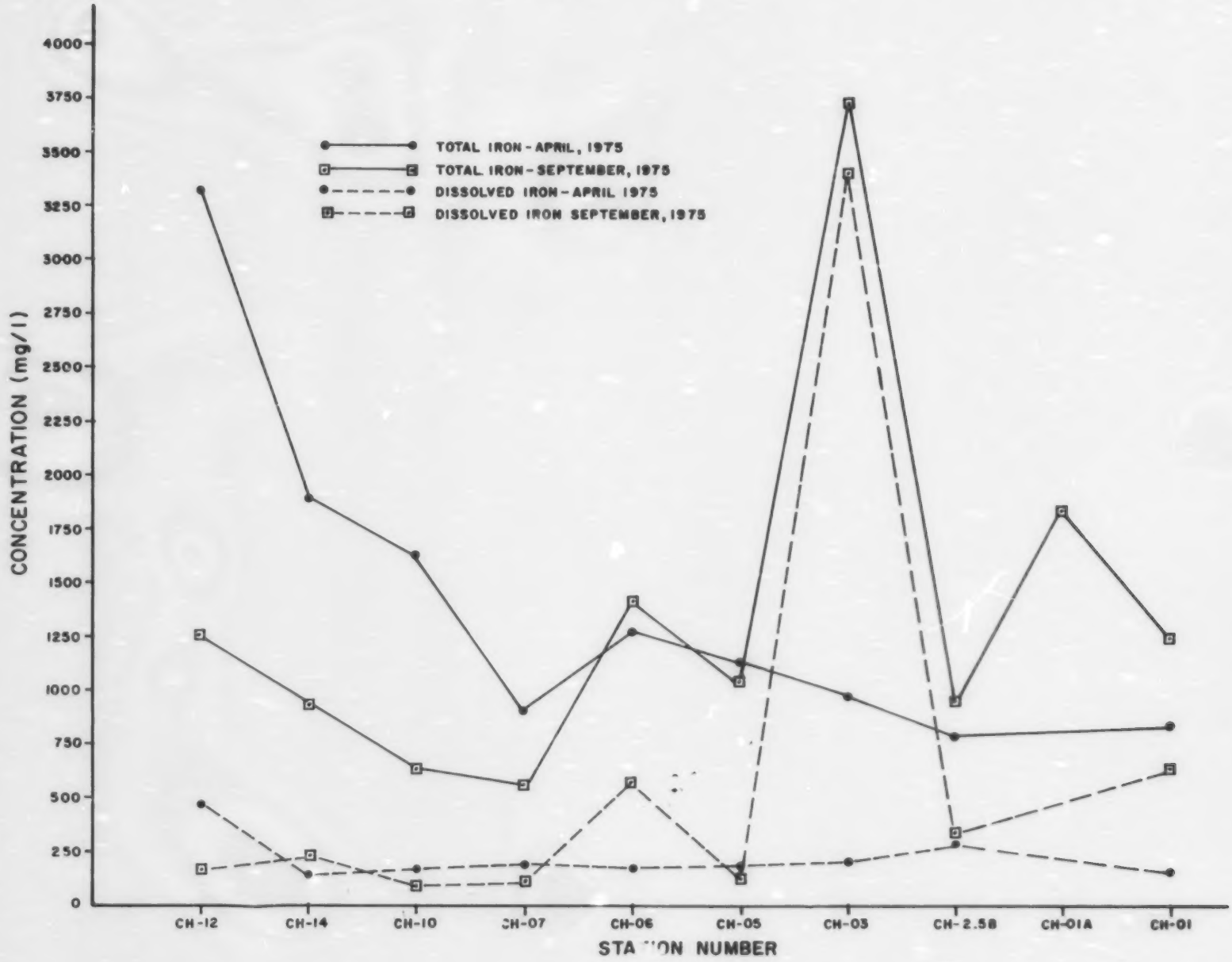
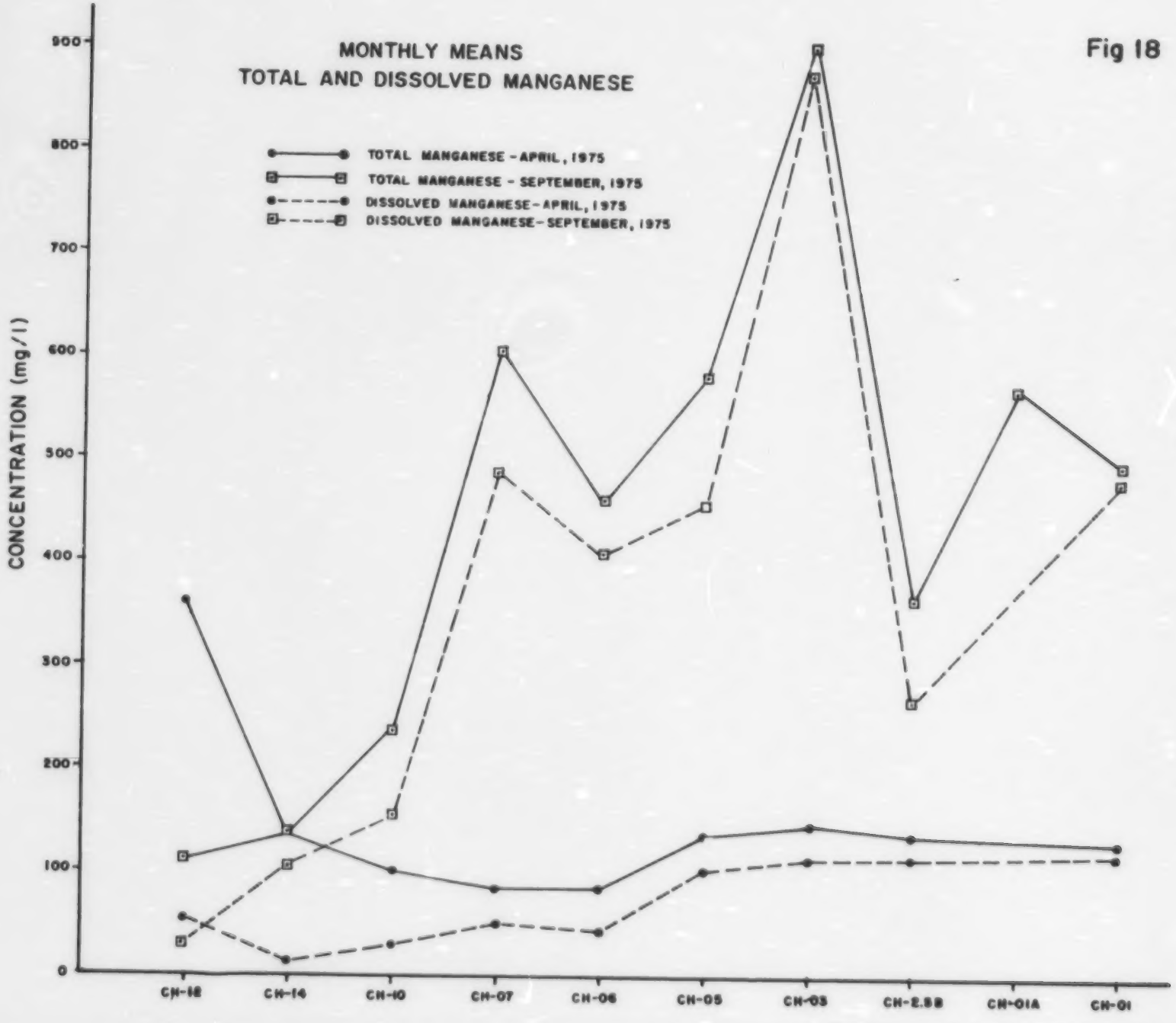


Fig 18


MONTHLY MEANS
TOTAL AND DISSOLVED MANGANESE
TOTAL MANGANESE - APRIL, 1975
TOTAL MANGANESE - SEPTEMBER, 1975
DISSOLVED MANGANESE - APRIL, 1975
DISSOLVED MANGANESE - SEPTEMBER, 1975
CONCENTRATION (mg/l)
900
800
700
600
500
400
300
200
100
0
CH-18
CH-14
CH-10
CH-07
CH-06
CH-05
CH-03
CH-2.88
CH-01A
CH-01

found in the hypolimnion at Station CH-03 (bottom sample mean of 11,988 ug/l during September study). Manganese concentrations in the lake discharge in September were approximately 2.5 times as high as in April, but like iron, did not approach the extremes found on the bottom at Station CH-03 (2,931 ug/l). From these comparisons, it appears that the portion of the coffer dam which was left in place behind the penstock is functioning, as planned, to reduce the discharge of hypolimnetic waters (Figure 1).

Concentrations of both Fe and Mn in tributaries to the lake were generally lower during the September study (dry period) than in the April study (wet period). This is as expected, since Fe and Mn are generally associated with non-point source runoff.

Figures 19, 20, 21, and 22 illustrate the effect which the beginning of destratification had on the distribution of total Fe and Mn in the reservoir. Note the dilution effect exerted by the mixing in the upper levels (0-40') of the reservoir while chemical stratification remained in the deeper areas. This mixing effect would be expected to continue as complete destratification occurred and relatively uniform concentrations of Fe and Mn would exist from the surface to the bottom.

The destratification which occurred during the September study was a gradual destratification and as such, surface concentrations of Fe and Mn were not increased significantly. Should a rapid turnover occur in the future, Fe and Mn concentration in the upper levels of the reservoir (above elevation 585 msl--the top of the submerged coffer dam) would be expected to increase appreciably. This could lead to increased Fe and Mn concentrations in the lake discharge and possible increased problems for downstream water supplies.

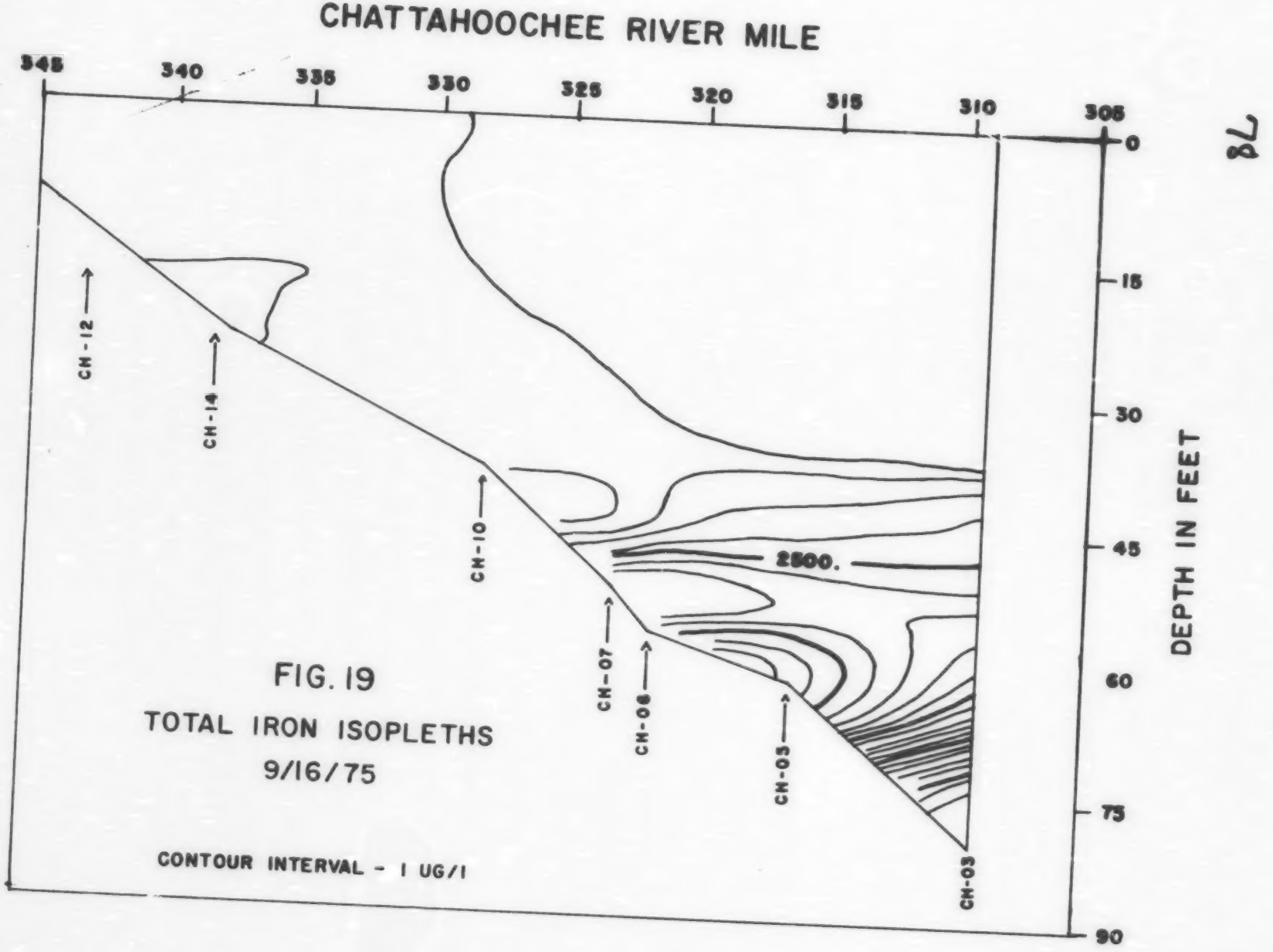
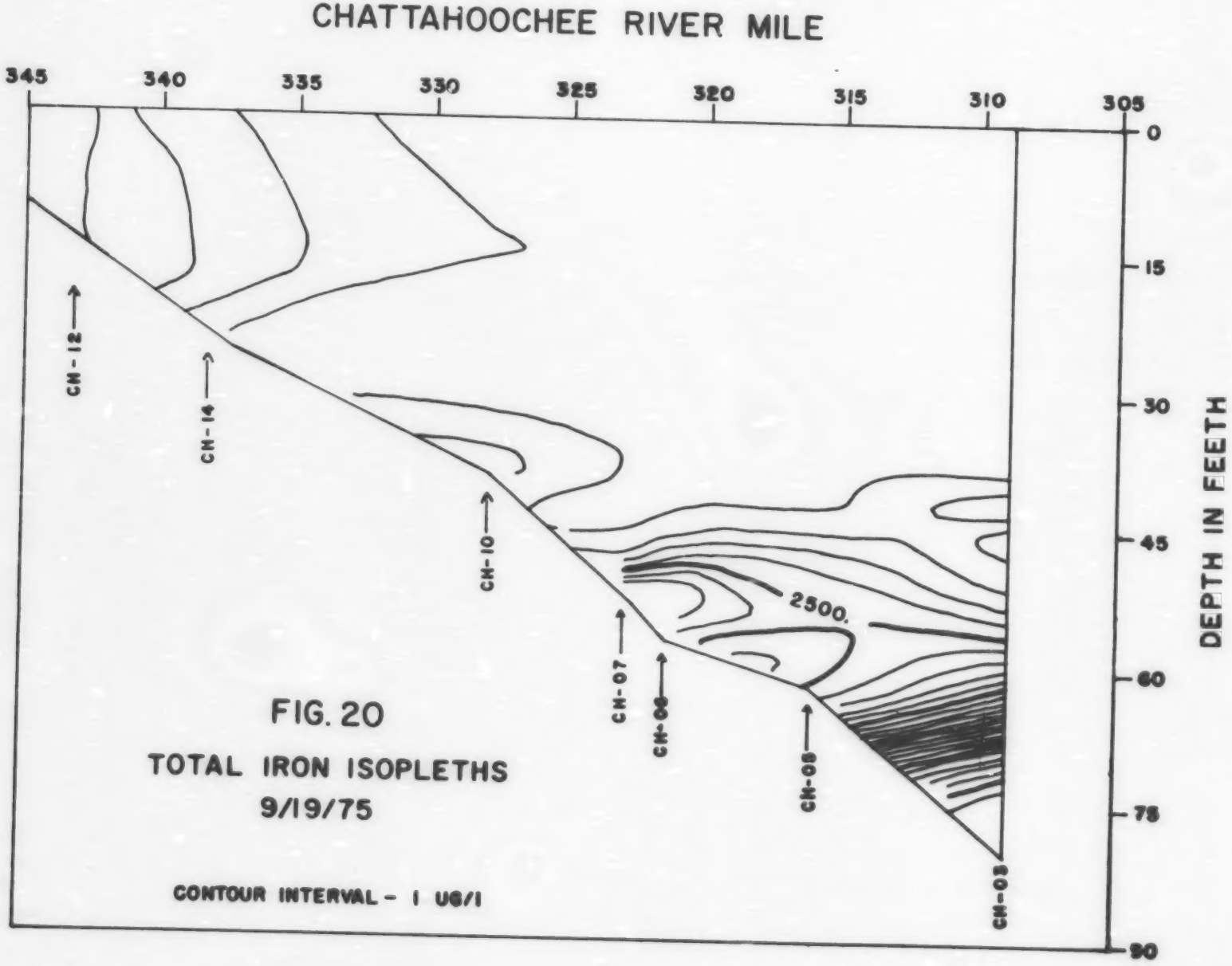


FIG. 19

TOTAL IRON ISOPLETHS

9/16/75


CHATTAHOOCHEE RIVER MILE
345
340
335
330
325
320
315
310
305
0
15
30
45
60
75
90
DEPTH IN FEETH
CH-12
CH-14
CH-10
CH-07
CH-06
CH-05
CH-03
2500.
FIG. 20
TOTAL IRON ISOPLETHS
9/19/75
CONTOUR INTERVAL - 1 UG/1

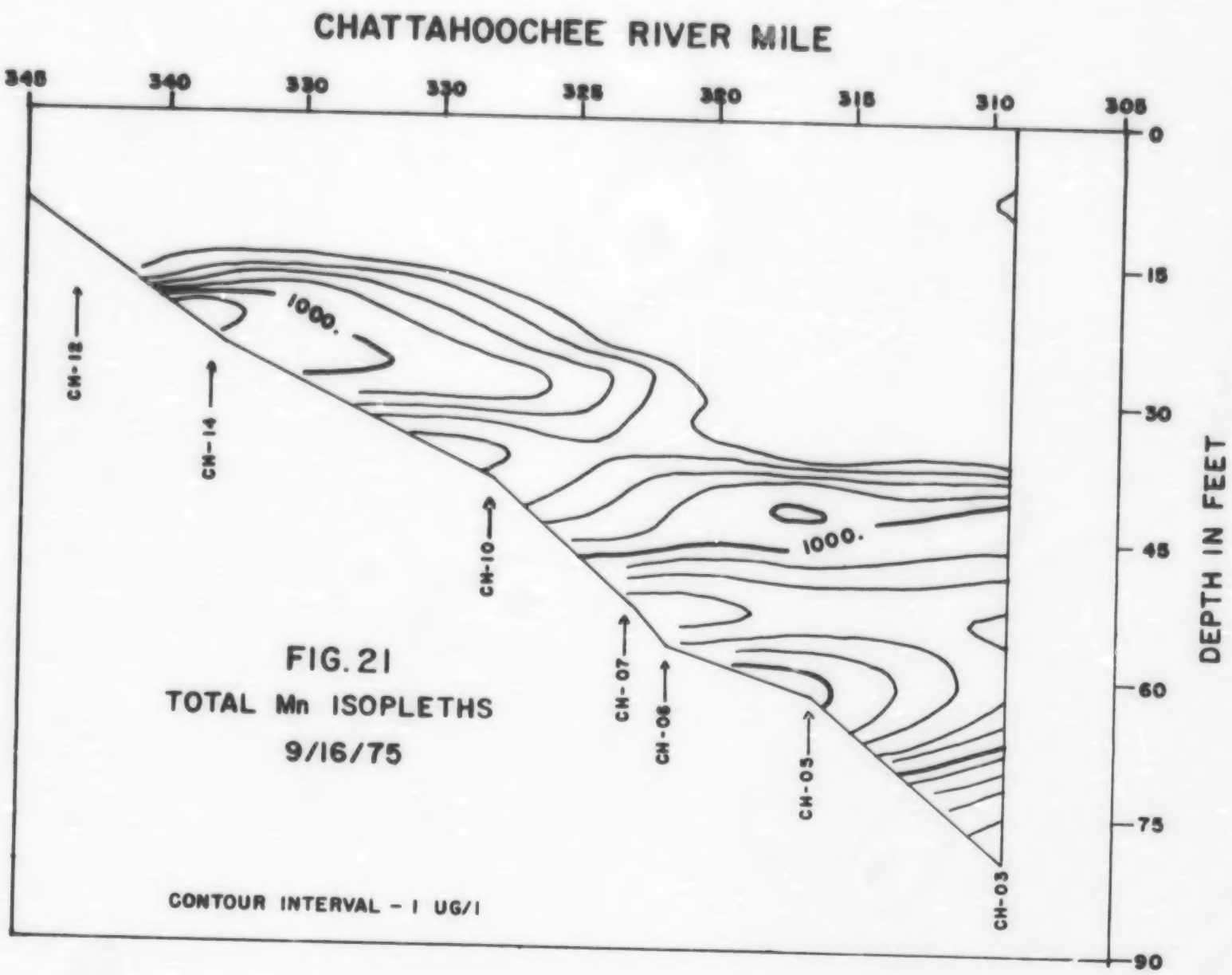


FIG. 21
TOTAL Mn ISOPLETHS
9/16/75

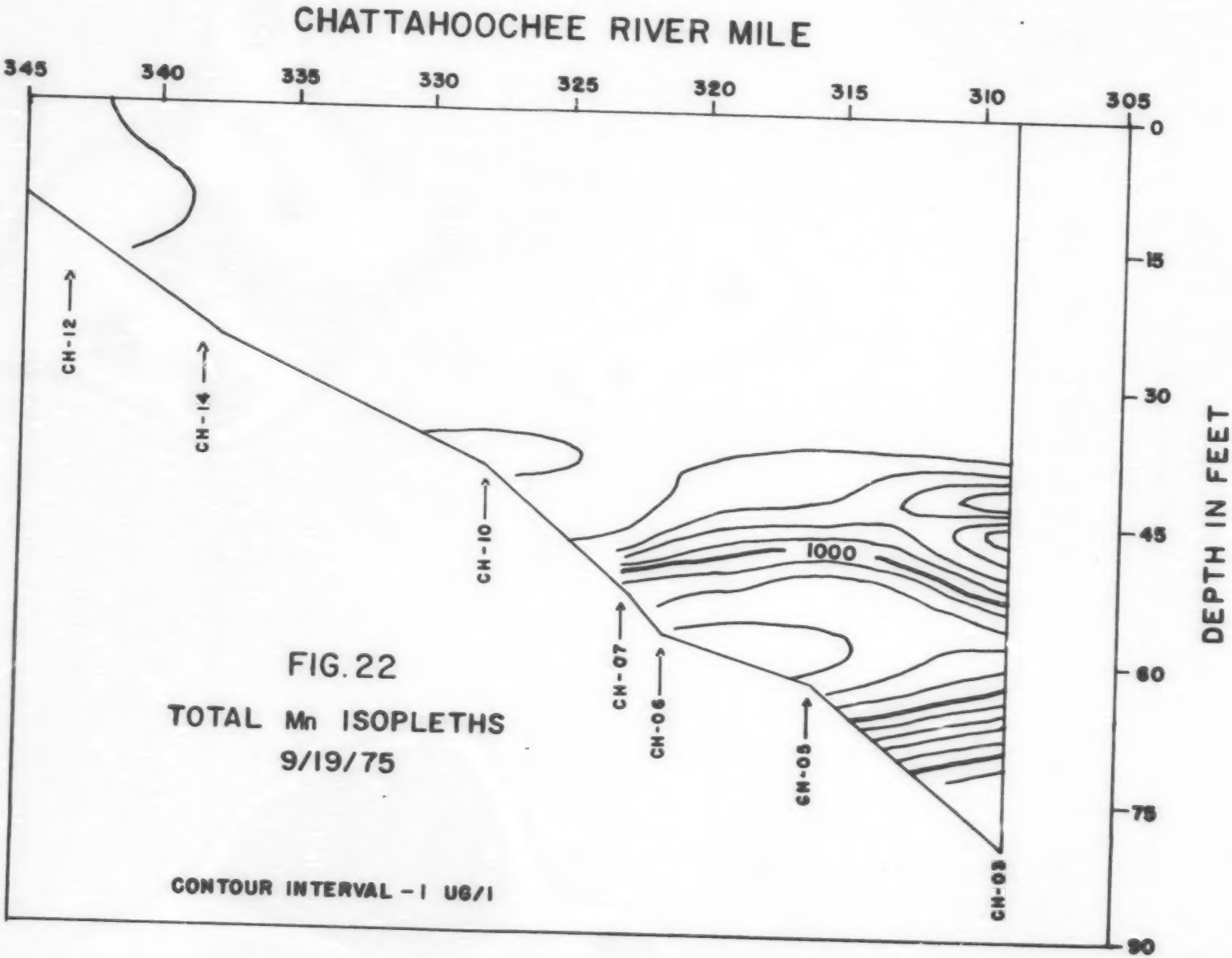


FIG. 22

TOTAL Mn ISOPLETHS

9/19/75

The trapping efficiency of the lake was calculated for Fe and Mn during both the April and September studies using inflow and outflow loads. Results showed that during the April study, both Fe and Mn were retained in the lake at the rates of 209 and 403 gm/m^2/year, respectively. During the September study period, Fe was retained at the rate of 16.9 gm/m^2/year, but Mn was exported from the lake at a rate of 9.9 gm/m^2/year.

PHYSICAL PARAMETERS

Temperature

The study area is located in a temperate climate characterized by short, mild winters and long, warm summers. Extreme ambient air temperatures approach 0°F in winter and 100°F in summer.

Water temperatures of incluent streams (Chattahoochee River, New River, Yellowjacket Creek, and Wehadkee Creek) reflected seasonal air temperature changes and to a lesser extent, the summer shading effects of overhanging shoreline vegetation. Progressing downstream, each of the influent streams showed a small but steady increase in average temperatures (Table 15). This downstream increase was more pronounced in September, even though the averages include the relatively low hypolimnetic temperatures.

Turbidity and Color (Table 16)

During the April intensive study period, mean turbidity and color remained fairly constant from the upstream to the downstream portion of the mainstem of the lake (slight decrease in turbidity and slight increase in color). Color values for the September intensive study period remained nearly constant while turbidity values showed a decreasing downstream trend.

TABLE 15
TEMPERATURE RANGES AND MEANS

STATION NO.	GROUP #	April			September		
		MIN.	MAX.	MEAN	MIN.	MAX.	MEAN
CH-12	1	11.5	14.0	12.5	21.0	23.0	22.3
CH-14	1	12.5	15.5	14.2	21.8	23.5	22.8
CH-10	1	13.0	16.0	14.5	23.3	26.2	24.2
CH-7	1	13.0	15.3	14.5	23.0	26.0	24.5
CH-6	1	13.0	15.0	14.4	23.3	28.5	24.8
CH-5	1	14.0	15.5	14.4	23.2	27.8	25.0
CH-3	1	14.0	15.5	14.6	22.8	26.5	25.4
CH-2.5	2	13.0	14.5	13.7	23.5	26.0	25.1
CH-01	2	13.0	13.8	13.8	23.5	25.0	24.7
CH-09	3	12	14	12.9	18.0	22.0	19.9
CH-15	3	12	16	14.2	23.0	27.5	24.6
CH-08	3	13	16.5	14.6	22.2	26.3	24.6
CH-16	4	12	14	12.9	21.5	23.0	22.0
CH-04	4	12	15	13.8	24.8	25.5	25.1
CH-13	4	12	17.2	13.9	22.0	26.8	25.2
CH-11	5	12	15	12.9	19.0	22.0	20.3

NOTE: The stations in each group are arranged in upstream to downstream order.

Group Number Key: 1-Chattanooga River, Lake Stations
2-Chattanooga River, Downstream Stations
3-Yellowjacket Creek
4-Wehadkee Creek
5-New River

TABLE 16
RANGES AND MEANS FOR TURBIDITY AND COLOR

Station Number	Group Number	Turbidity		Color	
		April	September	April	September
		Min-Max(Mean)	Min-Max(Mean)	Min-Max(Mean)	Min-Max(Mean)
CH-12	1	23-48(33)	14-52(29)	30-40(35)	20-50(31)
CH-14	1	32-59(45)	13-40(27)	25-40(35)	30-50(38)
CH-10	1	26-55(39)	6-31(14)	30-50(41)	20-60(31)
CH-07	1	20-49(35)	4-30(8)	30-50(42)	5-40(25)
CH-06	1	17-48(33)	4-28(12)	30-50(43)	20-100(31)
CH-05	1	20-64(35)	4-24(35)	35-60(47)	20-80(35)
CH-03	1	18-43(28)	4-22(7)	35-50(44)	20-350(34)
CH-2.5B	2	20-27(26)	4-6(5)	25-45(33)	20-35(27)
CH-01	2	21-26(24)	4-10(6)	25-40(31)	20-60(37)
CH-09	3	38-123(72)	25-58(40)	35-60(47)	20-120(50)
CH-15	3	25-83(56)	4-7(5)	35-50(44)	15-35(28)
CH-08	3	27-86(62)	4-34(15)	40-60(54)	20-280(111)
CH-16	4	29-67(43)	16-21(19)	35-40(39)	30-60(54)
CH-04	4	27-56(42)	4-5(4)	40-50(43)	20-30(22)
CH-13	4	27-65(41)	4-23(10)	35-70(54)	20-280(95)
CH-11	5	23-58(40)	14-29(19)	40-45(42)	20-60(42)

NOTE: Stations in each group are arranged in upstream to downstream order.

Group Number Key:

1 - Chattahoochee River, Lake Stations
2 - Chattahoochee River, Downstream Stations
3 - Yellowjacket Creek
4 - Wehadkee Creek
5 - New River

The range of values for these parameters at all stations for both intensive study periods was small. The only exception was color at three stations (CH-03, CH-08, and CH-13), which stratified first and turned over last. Hypolimnetic color values at these stations ranged as high as 280 to 350 color units during the September intensive study. Despite these few high color values in September, average values for both color and turbidity were higher in April at nearly all stations. The April study was conducted near the end of the rainy season, indicating that a major portion of the color in the lake was introduced by runoff, with a lesser amount introduced by hypolimnetic dissolution of both inorganic and organic sediment.

pH and Conductivity (Table 17)

During both the April and September sampling period, there was a slight decrease in average pH values from the upstream to the downstream end of the lake, but all values were between 6.0 and 7.0 standard units (SU). There was no significant difference at any tributary station between April and September values. During the September study, there was a slight decrease in pH from top to bottom at deep water stations. During sampling by GA-EPD personnel on July 28, 1975, Stations CH-12, CH-14, CH-10, and CH-17 all had pH values greater than 8.0. Stations CH-03, CH-05, CH-06, CH-08, and CH-13 all experienced pH values greater than 8.0 (several greater than 9.0) within a few months of initial stratification.

During each of the study periods, mean conductivities remained nearly constant over the entire lake. Mean values at all stations were appreciably greater during the September study period. The greatest values occurred in the hypolimnion at Stations CH-03, CH-08, and CH-13.

TABLE 17
RANGES AND MEANS FOR pH AND CONDUCTIVITY

Station Number	Group Number	pH		Conductivity	
		April Min-Max(Mean)	September Min-Max(Mean)	April Min-Max(Mean)	September Min-Max(Mean)
CH-12	1	6.4-7.0(6.6)	6.5-6.9(6.8)	38-50(43)	70-86(79)
CH-14	1	6.5-6.9(6.7)	6.4-6.7(6.5)	38-45(41)	72-92(82)
CH-10	1	6.3-6.7(6.5)	6.2-6.6(6.4)	38-47(43)	66-77(72)
CH-07	1	6.4-6.7(6.5)	6.1-7.0(6.3)	35-46(40)	60-77(69)
CH-06	1	6.2-6.7(6.5)	6.0-6.7(6.4)	37-46(40)	66-82(74)
CH-05	1	6.2-6.5(6.4)	5.9-6.6(6.2)	39-45(42)	56-77(69)
CH-03	1	6.2-6.8(6.4)	5.8-6.6(6.2)	38-44(41)	53-122(77)
CH-2.5B	2	6.3-6.7(6.5)	6.3-6.6(6.5)	39-43(41)	70-70(70)
CH-01	2	6.4-6.6(6.5)	6.4-6.7(6.5)	38-44(42)	66-72(70)
CH-09	3	6.5-6.9(6.6)	6.7-7.0(6.9)	28-38(33)	53-72(62)
CH-15	3	6.4-6.7(6.5)	6.4-6.7(6.5)	27-45(34)	65-76(69)
CH-16	4	6.3-6.9(6.6)	6.6-6.7(6.6)	22-35(30)	54-59(57)
CH-04	4	6.4-6.8(6.6)	6.5-6.7(6.6)	23-29(26)	48-59(54)
CH-13	4	6.0-6.8(6.4)	5.9-6.6(6.2)	27-59(38)	61-110(73)
CH-11	5	6.5-6.9(6.7)	6.7-7.1(6.9)	32-40(37)	70-92(83)

NOTE: Stations in each group are arranged in upstream to downstream order.

Group Number Key:

1 - Chattahoochee River, Lake Stations
2 - Chattahoochee River, Downstream Stations
3 - Yellowjacket Creek
4 - Wehadkee Creek
5 - New River

Solids (Table 18)

As would be expected, the summary of total dissolved solids data is virtually identical to that for conductivity. Concentrations remained nearly constant at each station but increased in a downstream direction during both periods with slightly higher mean values occurring during the September intensive study period.

Mean suspended solid values were noticeably greater during the April intensive study, showing the expected runoff load during the wet portion of the year. During both intensive study periods, suspended solids values decreased from upstream to downstream, demonstrating the trapping capability of a lake caused by increased settling of suspended material as water velocity decreased.

TABLE 18
RANGES AND MEANS FOR SOLIDS

STATION NUMBER	Group Number	Total Dissolved Solids		Suspended Solids	
		April Max-Min(Mean)	September Max-Min(Mean)	April Max-Min(Mean)	September Max-Min(Mean)
CH-12	1	34-80(47)	58-99(78)	19-174(39)	1-83(28)
CH-14	1	15-48(37)	14-36(53)	42-116(77)	11-34(21)
CH-10	1	24-46(35)	37-50(43)	15-80(48)	8-31(18)
CH-07	1	25-52(38)	4-90(53)	1-32(17)	1-45(14)
CH-06	1	26-69(52)	25-83(67)	2-28(15)	2-45(14)
CH-05	1	18-99(46)	8-82(46)	4-68(24)	1-39(11)
CH-03	1	22-126(55)	27-114(61)	2-41(12)	1-72(17)
CH-2.5B	2	36-110(65)	22-77(50)	2-10(7)	1-14(8)
CH-01	2	35-112(63)	27-83(60)	1-12(7)	27-83(60)
CH-09	3	31-76(53)	45-89(67)	12-68(36)	14-43(27)
CH-15	3	37-72(49)	20-78(57)	6-52(26)	1-14(8)
CH-08	3	29-71(54)	3-134(58)	1-21(63)	3-144(58)
CH-16	4	20-80(48)	38-89(68)	18-68(36)	2-16(12)
CH-04	4	10-55(34)	31-83(54)	12-44(23)	1-7(3)
CH-13	4	30-107(63)	11-81(48)	1-52(16)	1-51(15)
CH-11	5	36-118(56)	45-100(76)	7-50(19)	2-17(11)

NOTE: Stations in each group are arranged in upstream to downstream order.

Group Number Key:

1 - Chattahoochee River, Lake Stations
2 - Chattahoochee River, Downstream Stations
3 - Yellowjacket Creek
4 - Wehadkee Creek
5 - New River

FUTURE STUDIES

The Waterways Experiment Station, Corps of Engineers, Vicksburg, Mississippi has prepared a tentative long-range plan of study for fisheries and water quality on West Point Lake[16]. A portion of this study plan, "Proposed Research Program for West Point Lake", can be found in Appendix D.

The Georgia Department of Natural Resources, Environmental Protection Division continued their monitoring program outlined in Appendix B-2 through 1976 and plan to continue this program throughout 1977.

REFERENCES

1. Sawyer, C. N., 1960, Chemistry for Sanitary Engineers, New York McGraw-Hill Book Company, Inc., pp. 310-314.

2. Corps 1975 - Descriptive Brochure and Map Prepared for June 7, 1975 Dedication.

3. Schneider, R. F., D. W. Hill, M. R. Weldon, R. E. Gentry, Preimpoundment Study of West Point Lake, Georgia (TS03-71-208-001.2); US-EPA, Region IV, Surveillance and Analysis Division, Athens, GA; January 1972.

4. American Public Health Association, 1971. Standard Methods for the Examination of Water and Wastewater, Thirteenth Edition.

5. Moore, B., 1949. "The Detection of Parotyphoid Carriers in Towns by Means of Sewage Examination", Bull. Hyg., 24, 187.

6. Spino, D. F., 1966. "Elevated Temperature Technique for the Isolation of Salmonella from Streams", Applied Microbiology, 14, pp. 591-596.

7. Ewing, W. H., 1962. Enterobacteriaceae Biochemical Methods for Group Differentiation, Public Health Service Publication No. 734.

8. Edwards, P. R., W. H. Ewing, 1962. Isolation and Grouping of Salmonella and Shigella Cultures, U. S. Dept. of Health, Education, and Welfare, Public Health Service.

9. Climatological Data, National Oceanic and Atmospheric Administration, Environmental Data Service, Asheville, NC.

10. Gakstatter, J. H., M. O. Allum. Data Presented at the EPA-Region IV Seminar on eutrophication; Atlanta, GA; December 3, 1975.

11. Miller, W. E., T. E. Maloney, and J. C. Green, 1974. "Algal Productivity in 49 Lake Waters as Determined by Algal Assays", Water Research, 8, 667-679.

12. Larsen, D. P., and H. T. Mercier, Lake Phosphorus Loading Graphs: An Alternative (working paper No. 174); US-EPA, National Eutrophication Survey; July 1975.

13. Water Resources Engineers, Inc., Mathematical Models for the Prediction of Thermal Energy Changes in Impoundments, FWQA, Washington, D. C. Water Pollution Control Research Series 16130 EXT12169. December 1969.

14. Tapp, J. S., Comparison of Eutrophication Models; US-EPA, Region IV, Water Division, Atlanta, GA.

15. National Eutrophication Research Program, Algal Assay Procedure - Bottle Test; US-EPA, August 1971.

16. U. S. Army, Corps of Engineers, Waterways Experiment Station, "Fisheries and Limnological Studies on West Point Lake; A Plan of Study," Vicksburg, MS; May, 1976.

APPENDIX A

Point Source Wastewater Discharges
0.1 mgd or Greater Tributary to West
Point Lake Within 120 Miles Upstream
of West Point Dam

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APPENDIX A

POINT SOURCE WASTEWATER DISCHARGES 0.1 MGD OR GREATER TRIBUTARY TO WEST POINT LAKE WITHIN 120 MILES UPSTREAM OF WEST POINT DAM
(DATA FURNISHED BY GEORGIA DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION AGENCY

Facility and Facility #	WQMU #	Stream	Miles Upst. From West Point Dam	Design Flow (mgd)	Status	Treatment
Fulton Co. - Big Cr. Plant 2233	1210	Chattahoochee R.	116.9	1.4	overloaded, plant under construction	activated sludge
Cobb Co. Chattahoochee R. WTP - 2112	1291	Chattahoochee R.	107	10.0	>75% capacity	activated sludge
Atlanta - RM Clayton WTF 2226	1291	Chattahoochee R.	107	80.0	plant under construction overloaded, expansion under construction (to 120 mgd)	activated sludge
Sonoco Prod. Co. - 1126	1291	Chattahoochee R.	106.7	0.6	proposed to public system	settling tanks primary
GA Power Co. Plants Atkinson & McDonough 1123	1291	Chattahoochee R.	105.6	767.0	non-organic waste >75% capacity mostly cooling water	no treatment not applicable
				3.0	ash wash	secondary
Atlanta-Hartsfield Incinerator - 2906	1291	Chattahoochee R.	105.3	1.3	non-organic waste >75% capacity-to be abandoned	secondary
Seydell-Woolley and Co. - 1125	1212	Proctor Cr.	103.9-6	0.216	non-organic waste cooling water	no treatment not applicable
Southern RR 1127	1212	Proctor Cr.	103.9-3.4	1.44	non-organic waste	oil-water separation
Atlanta-Hollywood R. WTF 2540	1212	Proctor Cr.	103.9-2.6	1.5	overloaded, excess flow to public system RM Clayton WTF	solids removal
Lockheed-GA Co. 1973	1211	Nickajack Cr.	102-13	7.0	<75% capacity	pH adjustment chemical precipitation trickling filter aerated ponds cyanide destruction
Cobb Co.-South Cobb WTF - 2129	1291	Chattahoochee R.	100.6	8.0	>75% capacity	activated sludge

APPENDIX A (continued)

Facility and Facility #	WQMU #	Stream	Miles Upst. From West Point Dam	Design Flow (mgd)	Status	Treatment
East Point water plant 2243	1213	Utoy Creek	91.2-9.5	0.2	non-organic waste	solids handling secondary
Atlanta-Utoy Cr. Plt-2230	1213	Utoy Creek	91.2-1	30.0	<75% capacity	activated sludge secondary
Cobb Co. Allyson Park-2098	1214	Noses Creek	87.6-17.3	0.32	to be abandoned at capacity	waste stabilization pond
Cobb Co. Sandtown R. WTF 2139	1214	Olley Creek	22.8	1.0	overloaded to be abandoned	trickling filter
Cobb Co. Westside WTF-2140	1214	Ward Creek	87.6-25.5	1.0	>75% capacity to be abandoned	trickling filter
Lamplighter MHP WTF-3107	1214	Noses Creek	86.6-16	0.131	>75% capacity	activated sludge
Fulton Co.-Camp Cr. Plant 2234	1291	Chattahoochee R.	83.1	15.0	<75% capacity	activated sludge
Fairburn-Line Creek-2232	1215	Line Creek	82.6-8.6	0.22	<75% capacity	activated sludge
Union City 2245	1215	Deep Creek	82.6-8.4	0.25	<75% capacity	activated sludge
Douglasville 2196	1216	Annewakee Cr.	81.0-6.5	1.0	<75% capacity	activated sludge
Palmetto-2244	1218	Little Bear Creek	74.1-8	0.6	<75% capacity	activated sludge
GA Power Co. Plt. Yates	1291	Chattahoochee R.	58.1	613.2	non-organic waste >75% capacity	no treatment not applicable
Newnan Plt. No. 5-2168	1219	Cotton Mill Creek	55.9-12.6	0.4	overloaded, to be abandoned	trickling filter

APPENDIX A (continued)

Facility and Facility #	WQMU #	Stream	Miles Upst. From West Point Dam	Design Flow (mgd)	Status	Treatment
Newnan Plt. No. 3-2168	1219	Snake Cr.	55.9-8.5	0.4	overloaded	trickling filter
Bibb Mfg. Co. Arnco Mills-1082	1219	Wahoo Cr.	55.9-4.3	0.235	>75% capacity	waste stabilization pond
Franklin-2293	1292	Chattahoochee R.	34.6	0.085	discharge to impoundment overloaded	activated sludge
Franklin Aluminum Co.-1169	1292	Chattahoochee R.	32.6-1.4	0.225	discharge to impoundment non-organic waste >75% capacity	pH adjustment chemical precipitation equiliza-tion
Wm. L. Bonnell Co.-1083	1221	Mineral Springs Br.	27-24.5	1.0	non-organic waste >75% capacity	pH adjustment chemical precipitation oil-water separation
Newnan Plt. No. 1-2166	1221	Mineral Springs Br.	27-21	0.75	<75% capacity	activated sludge
Hogansville Plant-2430	1222	Yellowjacket Cr.	13.4-16.8	0.5	<75% capacity	activated sludge
LaGrange-Hoganville Roat Plant 2432	1222	Shoal Cr.	13.4-11.9	0.25	discharge to impoundment <75% capacity	trickling filter
LaGrange-Yellowjacket Cr. Plt. 2434	1222	Yellowjacket Cr.	13.4-3.3	1.0	discharge to impoundment overloaded	trickling filter
LaGrange WTP 2436	1222	Yellowjacket Cr.	13.4-1.5	0.2	non-organic waste <75% capacity	solids handling secondary

APPENDIX B-1

LOCATIONS OF SAMPLING STATIONS

Station No.	River Mile	
CH-01	306.7	Chattahoochee River - West Point, GA above U. S. 29, Troup County, GA
CH-01A	307.7	Chattahoochee River - At USGS Gaging Station, Troup County, GA
CH-02.5B	309.0	Chattahoochee River - At the damsite. Troup County, GA
CH-03	309.2	Chattahoochee River - Approximately 1,000 ft. upstream from damsite. Troup County, GA
CH-04	314.4 7.3	Wehadkee Creek - Relocated State Route 244, just east of State Line Road. Troup County, GA
CH-05	316.2	Chattahoochee River - Georgia Hwy. 238, west of LaGrange, GA, Troupe County, GA
CH-06	321.5	Chattahoochee River - Georgia Hwy. 109, west of LaGrange, GA, Troupe County, GA
CH-07	323.0	Chattahoochee River - LaGrange water supply intake station. Troup County, GA
CH-08	321.9 1.3	Yellowjacket Creek - Cameron Mill Road on County Road S 2098, west of LaGrange, GA Troup County, GA
CH-08A	321.9 3.7	Jackson Creek 100 yds. upstream of confluence with Yellow Jacket Creek, northeast of LaGrange, GA, Troup County, GA
CH-09	321.9 13.2	Yellowjacket Creek - Youngs Mill Road northeast of LaGrange, GA, Troup County, GA
CH-10	328.0	Chattahoochee River - Georgia Hwy. 219, northwest of LaGrange, GA, Troup County, GA
CH-11	335.2	New River - U. S. Hwy. 27, south of Franklin, GA, Heard County, GA
CH-12	343.1	Chattahoochee River - U. S. Hwy. 27, Franklin, GA, Heard County, GA

APPENDIX B-1
LOCATIONS OF SAMPLING STATIONS (continued)

Station No.	River Mile	
CH-13	314.4 0.8	Wehadkee Creek - Georgia Hwy. 60, west of LaGrange, GA, Troup County, GA
CH-13-A	314.4 1.8	Veasy Creek at confluence of Stroud Creek, just west of Georgia state line, near point where Oakland Road dead-ends at reservoir high water line, Chembers County, AL
CH-14	337.8	Chattahoochee River - Confluence with Bush Creek, Heard County, GA
CH-15	321.9	Yellowjacket Creek - Georgia Hwy. 219. Troup County, GA
CH-16	314.4 12.5	Wehadkee Creek - Confluence w/Gus Creek. Chalmers County, AL

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APPENDIX B-2
SAMPLING DATES
BY AGENCY (SEE AGENCY-FOOTNOTE KEY) BY MONTH

1975

Station Number	Jan.	Feb.	Mar.	April	May	June	July	August	Sept.	Oct.	Nov.
WPP									15-19(A)		
CH-01				14-18(A)					15-19(A)		
CH-01A	15(C)	25(C)		8(C)	13(C)		8(C)	19(C)	17(C)		
CH-2.5B				14-18[1/](A)			7/	4,6,8(B)		23/	24/
CH-03				14-18(A)	19(B)	9,27(B)	14-29(B)	11,29(B)	13/	8(B)	13(B)
CH-04				15-18(A)					15-19(A)		
CH-05				14-18(A)	19(B)	9,27(B)	14-28(B)	11,28(B)	14/	7(B)	
CH-06				14-18(A)	19(B)	9,26(B)	14-28(B)	11,28(B)	15/	7(B)	
CH-07	15(C)	25(C)		2/	4/	10,26(B)	8/	10/	16/	7(B)	12(B)
CH-LG				14-18(A)					19-21(B)		
CH-DM				14-18(A)					14-19(A)		
CH-08				14-18(A)	20(B)	10,26(B)	14-28(B)	12,28(B)	17/	7(B)	12(B)
CH-08A				16,17(A)					24,25(B)		
CH-09				14-18(A)					12-19(A)		
CH-10				14-18(A)	20(B)	10,26(B)	15-28(B)	12,29(B)	18/	7(B)	12(B)
CH-11				14-18(A)					15-19(A)		
CH-12	22(D)	20(D)	20(D)	3/	5/	6/	9/	11/	19/		12(B)
CH-13				14-18(A)	19(B)	9,27(B)		11,29(B)	20/	8(B)	
CH-13A				16-18(A)							
CH-14				15-18(A)		26(B)	14,29(B)		21/	7(B)	12(B)
CH-15				14-18(A)					22/		
CH-16				14-18(A)					15-19(A)		

Footnotes

1/ Inclusive dates
2/ 14-18(A); 8(C)
3/ 14-18(A); 20(D)
4/ 20(B); 13(C)
5/ 20(B); 22(D)
6/ 10,27(B); 26(D)
7/ 8-17, 21-24, 28(B)
8/ 14-28(B); 8(C)
9/ 3,8,15,17,20,23,25,29,31(B); 28(C)
10/ 12,28(B); 19(C)
11/ 2,5,7,10,12,13,15,21,26,29(B); 19(C)
12/ 15-19(A); 4,5,11,23,25,30(B); 8(C)
13/ 14-20,25(A); 8,24(B)
14/ 15-20,25(A); 24(B)
15/ 16,19,20(A); 24(B)
16/ 15-20(A); 8,24(B); 16(C)
17/ 15-19(A); 9,24,25(B)
18/ 15-19(A); 8(B)
19/ 14-19(A); 3,7,8,9,11,25,29(B); 16(C)
20/ 16-20,25(A); 8,24(B)
21/ 15-19(A); 8(B)
22/ 15-19(A); 25(B)
23/ 2,7,8,9,28,30(B)
4,6,13,18(B)

Agency

(A) Surveillance and Analysis Division, EPA, Region IV
(B) Georgia Dept. of Natural Resources, Environmental Protection Division
(C) U. S. Geological Survey
(D) City of Atlanta

APPENDIX C-1

Chattahoochee River Discharges

Whitesburg, Georgia and West Point, Georgia

APPENDIX C-1
Chattahoochee River Discharges
United States Department of Interior - Geological Survey - Water Resources Division
Table Printed 11-07-75
Chattahoochee River Near Whitesburg, GA Number 02338000
Drainage Area 2,430.00 Sq Mi

Discharge, in Cubic Feet Per Second

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,540	3,270	3,980	7,840	4,060	3,090	2,860	4,020	2,350
2	2,860	3,150	3,790	10,500	6,400	2,800	3,400	3,830	2,190
3	3,370	3,170	3,020	16,500	6,900	4,090	3,050	2,530	2,910
4	6,040	15,200	4,510	10,800	8,190	5,450	3,090	2,190	4,210
5	3,920	19,700	5,540	9,560	4,210	5,360	2,880	3,320	5,770
6	2,740	17,800	5,540	8,990	5,610	5,400	2,420	4,480	3,250
7	2,400	8,830	3,940	6,210	7,410	5,640	3,070	5,030	1,980
8	3,440	5,560	3,480	7,800	11,200	4,880	2,970	6,150	2,320
9	4,740	3,900	3,140	8,800	9,710	2,870	3,250	5,090	2,240
10	4,100	3,370	2,660	10,400	8,220	2,860	3,220	2,890	2,960
11	10,800	3,690	4,070	9,400	4,510	5,400	4,640	5,380	4,130
12	7,120	4,760	5,220	8,920	3,010	8,760	2,960	5,420	3,540
13	9,420	3,900	14,700	8,440	5,090	5,770	2,150	4,170	3,640
14	6,170	3,810	33,400	6,110	6,240	4,670	1,880	4,460	2,320
15	4,730	2,900	33,900	11,400	4,690	3,100	2,420	5,480	1,920
16	3,200	4,470	23,800	10,000	6,950	2,370	2,490	4,640	2,120
17	2,670	11,700	12,700	9,280	9,350	2,530	2,910	3,530	3,370
18	3,030	8,900	12,400	8,130	7,950	3,900	3,180	1,970	5,090
19	2,720	9,910	20,300	6,920	4,330	4,400	2,980	2,760	6,830
20	2,670	7,470	15,300	4,050	5,980	5,240	2,170	2,910	5,390
21	2,890	7,600	11,500	3,160	7,940	4,870	3,060	2,750	3,460
22	3,580	4,790	10,200	4,260	7,770	3,180	2,500	2,440	2,540
23	3,190	4,620	9,490	3,800	7,730	2,200	2,690	2,730	3,200
24	2,620	7,030	10,300	3,670	7,370	2,060	3,480	2,130	3,490
25	7,910	8,150	14,200	3,850	3,770	2,680	6,540	1,670	2,490
26	9,130	5,220	11,100	4,820	2,450	2,970	5,270	2,160	2,940
27	5,340	4,570	9,910	4,050	2,980	2,790	3,230	3,960	2,740
28	4,190	4,220	9,340	3,500	3,410	2,060	2,870	7,220	2,170
29	3,150	—	9,090	5,010	3,780	2,750	3,820	4,820	2,000
30	3,440	—	6,800	4,360	3,570	2,180	4,200	3,230	2,220
31	3,190	—	5,730	--	3,100	—	3,950	2,020	--
TOTAL	139,310	191,660	323,050	220,530	183,880	116,320	99,600	115,440	96,280
MEAN	4,494	6,845	10,420	7,351	5,932	3,877	3,213	3,724	3,209
MAX	10,800	19,700	33,900	16,500	11,200	8,760	6,540	7,220	6,830
MIN	2,400	2,900	2,660	3,160	2,450	2,060	1,880	1,670	1,920

APPENDIX C-1 (Continued)
United States Department of Interior - Geological Survey - Water Resources Division
Table Printed 11-18-75
Chattahoochee River at West Point, GA Number 02339500
Drainage Area 3,550.00 Sq Mi

Discharge, in Cubic Feet Per Second

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,110	3,280	6,460	9,450	944	1,050	4,760	10,200	5,180
2	5,620	2,370	5,270	15,200	837	6,840	4,680	5,320	4,700
3	3,240	4,460	4,100	44,400	857	6,880	4,660	1,090	5,570
4	5,040	13,200	4,600	29,300	743	8,440	4,700	6,320	7,470
5	8,680	27,300	6,520	15,200	2,600	8,440	1,090	6,040	1,160
6	5,870	26,600	8,370	13,600	1,100	6,330	1,080	6,100	1,970
7	4,220	18,600	5,730	12,000	1,290	1,060	5,470	9,420	1,970
8	6,110	8,660	5,740	10 300	1,540	908	7,580	7,730	6,620
9	8,440	6,980	5,020	10,300	1,200	4,740	9,100	4,240	4,690
10	6,380	5,260	5,610	15,000	683	5,470	8,640	1,400	2,990
11	12,200	4,680	6,430	15,400	663	6,230	8,670	7,980	7,120
12	22,000	9,460	9,030	17,600	5,420	12,100	970	10,700	5,460
13	15,900	7,800	12,200	12,100	2,580	16,300	767	11,700	3,450
14	13,500	6,910	35,300	14,100	656	5,140	4,460	7,280	2,040
15	7,740	5,060	40,500	20,600	1,100	1,080	4,550	8,520	5,320
16	6,350	9,110	42,900	20,200	2,160	6,700	4,880	4,540	5,550
17	3,880	23,700	30,500	17,100	896	6,620	5,380	1,000	2,710
18	3,420	28,800	21,200	12,100	731	6,600	5,550	6,110	5,710
19	4,140	22,800	33,600	9,620	786	6,610	1,110	6,610	5,680
20	5,880	17,600	29,200	7,000	3,550	6,660	1,020	8,570	1,980
21	4,610	8,140	17,800	7,160	4,550	1,110	4,660	7,730	1,930
22	4,750	11,800	14,100	7,690	6,180	1,060	4,740	5,490	8,110
23	4,870	8,880	13,400	6,850	5,680	5,130	6,270	956	5,710
24	5,670	11,000	15,100	6,200	2,530	5,140	6,560	921	6,210
25	8,010	13,700	20,700	4,910	652	5,110	6,390	5,690	5,730
26	18,600	10,400	17,400	6,470	4,690	5,200	1,120	5,090	5,450
27	10,000	5,630	13,500	5,840	5,050	5,250	1,080	5,750	1,980
28	6,460	6,250	12,700	5,830	5,060	1,120	7,180	5,470	1,920
29	5,270	—	11,700	7,190	5,190	1,100	7,400	6,020	5,020
30	4,060	--	12,100	2,500	5,160	4,700	7,480	2,120	6,760
31	5,520	--	9,530	—	4,220	--	7,420	2,080	--
TOTAL	233,540	327,350	476,310	381,210	79,298	161,108	149,417	178,287	136,160
MEAN	7,534	11,690	15,360	12,710	2,558	5,370	4,820	5,751	4,539
MAX	22,000	28,800	42,900	44,400	6,180	16,300	9,100	11,700	8,110
MIN	3,240	2,370	4,100	2,500	652	908	767	921	1,160
(+)	+3	+47	-3	+139	+5,536	+47	+181	-301	-145

APPENDIX C-2

Water Quality Data - Post Impoundment Study

West Point Lake, Georgia

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

AGENCY	PRIMARY STATION	SECONDARY	STATION LOCATION	STATE		MINOR BASIN
1113S000	121939-B	CH-DM	CHATTAHOOCHEE R AT D-M MILLS	85	GEORGIA	CHATTAHOOCHEE
	121939-A	CH-LG	CHATTAHOOCHEE R ABV LAGRANGE WTP	85	GEORGIA	CHATTAHOOCHEE
	121939-A	CH-LG	CHATTAHOOCHEE R ABV LAGRANGE WTP	85	GEORGIA	CHATTAHOOCHEE
	010020	CH-WPP	CHATTAHOOCHEE R AT LANETT CTY WI	17	ALABAMA	CHATTAHOOCHEE
	010020	CH-WPP	CHATTAHOOCHEE R AT LANETT CTY WI	17	ALABAMA	CHATTAHOOCHEE
	121910-A	CH-01A	CHATTAHOOCHEE R WESTPT ABOV US29	85	GEORGIA	CHATTAHOOCHEE
	121912	CH-02.5B	CHATTAHOOCHEE R NEAR DAM	85	GEORGIA	CHATTAHOOCHEE
	121913	CH-03	CHATTAHOOCHEE R AT MAPLE CR MOUT	85	GEORGIA	CHATTAHOOCHEE
	121918	CH-04	WEHADKEE CR HWY 244 W LAGRANGE	85	GEORGIA	CHATTAHOOCHEE
	121920	CH-05	CHATTAHOOCHEE R GA238 W OF LAGRA	85	GEORGIA	CHATTAHOOCHEE
	121938	CH-06	CHATTAHOOCHEE R GA HY109 W LAGRA	85	GEORGIA	CHATTAHOOCHEE
	121939	CH-07	CHATTAHOOCHEE R AT LAGRA WTR INT	85	GEORGIA	CHATTAHOOCHEE
	121940	CH-08	YELLOW JACKET CR S2098 W OF LAGR	85	GEORGIA	CHATTAHOOCHEE
	121942	CH-08A	JACKSON CR NW OF LAGRANGE	85	GEORGIA	CHATTAHOOCHEE
	121945	CH-09	YELLOW JACKET CR NE OF LAGRANGE	85	GEORGIA	CHATTAHOOCHEE
	121960	CH-10	CHATTAHOOCHEE R GA HY 219 NW LAG	85	GEORGIA	CHATTAHOOCHEE
	121980	CH-11	NEW R US 27 S OF FRANKLIN	85	GEORGIA	CHATTAHOOCHEE
	121992	CH-12	CHATTAHOOCHEE R US 27, FRANKLIN	49	GEORGIA	CHATTAHOOCHEE
	121992	CH-12	CHATTAHOOCHEE R US 27, FRANKLIN	49	GEORGIA	CHATTAHOOCHEE
	121915	CH-13	WEHADKEE CR HWY 238 SW LAGRANGE	49	GEORGIA	CHATTAHOOCHEE
	010022	CH-13A	VEASEY CR AT CONFLUENCE STROUD C	85	GEORGIA	CHATTAHOOCHEE
	121988	CH-14	CHATTAHOOCHEE R MO OF BRUSH CR	17	ALABAMA	CHATTAHOOCHEE
	121943	CH-15	YELLOW JACKET CR AT HW 219	49	GEORGIA	CHATTAHOOCHEE
	010024	CH-16	WEHADKEE CR NR BELOW GUS CREEK	85	GEORGIA	CHATTAHOOCHEE
	121910	CH-01	CHATTAHOOCHEE R WESTPT ABOV US29	17	ALABAMA	CHATTAHOOCHEE
				85	GEORGIA	CHATTAHOOCHEE

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

PAGE	PARAMETER	DESCRIPTION
1	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.
1	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)
1	00070	TURBIDITY, (JACKSON CANDLE UNITS)
1	00080	COLOR (PLATINUM-COBALT UNITS)
1	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)
1	00300	OXYGEN, DISSOLVED (MG/L)
1	00310	BIOCHEMICAL OXYGEN DEMAND (MG/L, 5 DAY - 20DEG C)
1	00400	PH (STANDARD UNITS)
1	00403	PH (STANDARD UNITS) LAB
1	00410	ALKALINITY, TOTAL (MG/L AS CACO3)
1	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)
1	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)
1	00665	PHOSPHORUS, TOTAL (MG/L AS P)
1	00680	CARBON, TOTAL ORGANIC (MG/L AS C)
1	00900	HARDNESS, TOTAL (MG/L AS CACO3)
1	01045	IRON, TOTAL (UG/L AS FE)
1	01055	MANGANESE, TOTAL (UG/L AS MN)
1	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C
1	00003	DEPTH IN FEET
2	00500	RESIDUE, TOTAL (MG/L)
2	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L
2	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)
2	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)
2	01046	IRON, DISSOLVED (UG/L AS FE)
2	01056	MANGANESE, DISSOLVED (UG/L AS MN)
2	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)
2	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)
2	00945	SULFATE, TOTAL (MG/L AS SO4)
2	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED
6	00077	TRANSPARENCY, SECCHI DISC (INCHES)
6	00745	SULFIDE, TOTAL (MG/L AS S)
44	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C
54	00940	CHLORIDE (MG/L AS CL)
54	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)
54	00720	CYANIDE, TOTAL (MG/L AS CN)
54	00951	FLUORIDE, TOTAL (MG/L AS F)
54	01002	ARSENIC, TOTAL (UG/L AS AS)
54	01007	BARIUM, TOTAL (UG/L AS BA)
54	01027	CADMIUM, TOTAL (UG/L AS CD)
54	01034	CHROMIUM, TOTAL (UG/L AS CR)
54	01042	COPPER, TOTAL (UG/L AS CU)
54	01051	LEAD, TOTAL (UG/L AS PB)
54	01077	SILVER, TOTAL (UG/L AS AG)
54	01092	ZINC, TOTAL (UG/L AS ZN)
54	01147	SELENIUM, TOTAL (UG/L AS SE)
100	38260	METHYLENE BLUE ACTIVE SUBST. (DETERSENTS, ETC.)
100	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)
100	39350	CHLORDANE IN WHOLE WATER SAMPLE (UG/L)
100	39370	DDT IN WHOLE WATER SAMPLE (UG/L)
100	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)

APPENDIX C-2

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

PAGE	PARAMETER	DESCRIPTION
100	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)
100	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)
100	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)
100	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)
100	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)
100	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)
100	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)
100	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)
100	71900	MERCURY, TOTAL (UG/L AS HG)
101	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)
101	00910	CALCIUM (MG/L AS CACO3)
101	00929	SODIUM, TOTAL (MG/L AS NA)
101	00937	POTASSIUM, TOTAL MG/L AS K)
101	00003	DEPTH IN FEET

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-01 CHATTAHOOCHEE R WESTPT ABOV US29 CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750414	1915			1	2000	14.0	24	30	38	7.4	1.4
750415	1450			1	2000	13.0	25	25	43	7.2	1.7
750416	1445			1	2000	14.0	21	25	41	9.6	0.6
750417	1600			1	2000	14.0	25	35	44	7.4	1.1
750418	0700			1	2000	14.0	26	40	41	7.4	1.2
750915	1530			1	2000	25.0	10	40	72	3.8	2.5
750916	1340			1	2000	25.0	4K	20	70	4.2	
750917	1445			1	2000	25.0	6	60	70	3.8	
750918	1530			1	2000	25.0	6	35	70	3.2	
750919	0920			1	2000	23.5	4	30	66	5.5	

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00400 PH SU	00410 T ALK CACO3 MG/L	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00610 NH3-N TOTAL MG/L
750414	1915			1	2000	6.5	13	70	61	9	0.04
750415	1450			1	2000	6.4	16	68	59	9	0.04
750416	1445			1	2000	6.6	18	36	35	1	0.05
750417	1600			1	2000	6.4	15	114	112	2	0.09
750418	0700			1	2000	6.5	13	60	48	12	0.05
750915	1530			1	2000	6.4	19	92	81	11	0.27
750916	1340			1	2000	6.5	20	54	46	8	0.23
750917	1445			1	2000	6.4	26	32	27	5	0.38
750918	1530			1	2000	6.4	28	70	61	9	0.31
750919	0920			1	2000	6.7	19	86	83	3	0.24

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00625 TOT KJEL N MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00666 PHOS-DIS MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L
750414	1915			1	2000	0.18	0.31	0.06		2.3	10
750415	1450			1	2000	0.23	0.31	0.06		2.3	11
750416	1445			1	2000	0.26	0.30	0.06		1.5	11
750417	1600			1	2000	0.30	0.31	0.06		1.8	8
750418	0700			1	2000	0.23	0.31	0.08		2.3	
750915	1530			1	2000	0.46	0.01K	0.05	0.02	3.3	18
750916	1340			1	2000	0.35	0.01K	0.04	0.02	2.6	17
750917	1445			1	2000	0.59	0.01	0.06	0.03	2.6	17
750918	1530			1	2000	0.65	0.04	0.05	0.02	3.3	16
750919	0920			1	2000	0.35	0.04	0.04	0.02	2.9	16

APPENDIX C-2
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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-01 CHATTAHOOCHEE R WESTPT ABOV US29 CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00945 SULFATE SO4-TOT MG/L	01045 IRON FE,TOT UG/L	01046 IRON FE,DISS UG/L	01055 MANGNESE MN UG/L	01056 MANGNESE MN,DISS UG/L	31616 FEC COLI MFM-FCBR /100ML
750414	1915			1	2000	2K	850		110		590
750415	1450			1	2000	2K	750		135		80
750416	1445			1	2000	2K	750	255	125	120	55
750417	1600			1	2000	2K	800	240	135	105	100
750418	0700			1	2000	2K	900	240	140	130	110
750915	1530			1	2000	2K	1200	594	480	441	5K
750916	1340			1	2000	2K	1027	496	385	393	2K
750917	1445			1	2000	2K	1815	1140	648	634	34
750918	1530			1	2000	2K	1294	609	628	623	2K
750919	0920			1	2000	2K	794	190	332	318	4

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-01A CHATTAHOOCHEE R WESTPT ABOV US29 CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750115	1010			1	13	5.0	33	70	50	10.6	0.4
750225	0945			1	13	10.5	62	90	39	10.0	0.8
750408	1645			1	13	14.0	44	120	38	8.0	0.5
750513	1640			1	13	21.5	12	30	55	6.3	0.6
750708	1335			1	13	23.0	82	150	38	5.5	0.4
750819	1415			1	13	27.0	7	5	70	2.4	0.8
750917	1245			1	13	24.0	6	25	64	3.9	1.8

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00400 PH SU	00403 LAB PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P
750115	1010			1	13	6.6	7.0	16	0.04	0.28	0.07
750225	0945			1	13	6.1	6.8	9	0.02K	0.18	0.07
750408	1645			1	13	6.8	6.7	11	0.08	0.12	0.07
750513	1640			1	13	6.8	6.9	17	0.05	0.20	0.02
750708	1335			1	13	6.7	6.6	11	0.11	0.07	0.09
750819	1415			1	13	6.6	6.7	22	0.29	0.02K	0.03
750917	1245			1	13		6.7	23	0.34	0.02	0.06

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML
750115	1010			1	13	3.0	14	1400	120	750
750225	0945			1	13	4.0	12	2500	110	430
750408	1645			1	13	4.0	11			230
750513	1640			1	13	3.0	18	1200	250	36
750708	1335			1	13	17.0	12	4500	380	1500
750819	1415			1	13	3.0	18	1100	580	36
750917	1245			1	13	3.0	18	1820	570	36

APPENDIX C-2
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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-02.5B CHATTAHOOCHEE R NEAR DAM CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750414	2000			1	2000	14.5	24	30	39	8.4	1.3	6.3
750415	1520			1	2000	13.0	23	25	43	7.2	0.8	6.4
750416	1515			1	2000	14.0	20	30	41	9.2	0.8	6.7
750417	1630			1	2000	14.0	26	35	41	7.2	0.6	6.4
750418	0746			1	2000	13.0	27	45	39	7.2	1.2	6.5
750708	0930			1	13	25.5				2.5		
750709	0930			1	13	25.0				2.1		
750710	0830			1	13	25.5				3.9		
750710	0845			1	13	25.5				2.9		
750711	0940			1	13	25.0				2.3		
750714	0800			1	13	26.5				3.5		
750715	0800			1	13	27.0				5.0		
750716	1100			1	13	26.5				4.7		
750717	0800			1	13	26.5				4.6		
750721	0845			1	13	26.5				4.2		
750722	1015			1	13	26.5				3.7		
750722	1515			1	13	26.5				2.6		
750724	0830			1	13	26.5				2.5		
750724	1300			1	13	25.0				1.3		
750728	0745			1	13	27.0				4.0		
750804	1015			1	13	26.0				2.6		
750804	1530			1	13	26.5				3.2		
750806	0830			1	13	26.0				2.4		
750806	1315			1	13	25.5				2.6		
750808	0830			1	13	25.5				2.5		
750904	0815			1	13	27.5				4.0		
750904	1430			1	13	27.5				2.8		
750905	0830			1	13	27.5				4.2		
750908	0800			1	13	26.5				2.9		
750908	1500			1	13	26.5				2.7		
750908	1630			1	13	27.0				2.7		6.7
750911	0845			1	13	25.0				0.5		
750915	1650			1	2000	25.5	5	35	70	4.4	3.2	6.6
750916	1500			1	2000	26.0	4K	20	70	4.6		6.5
750917	1515			1	2000	25.0	4K	30	70	4.4		6.6
750918	1615			1	2000	25.5	6	30	70	3.5		6.4
750919	0735			1	2000	23.5	4K	20	70	3.6		6.3
750923	0845			3	13	23.0				3.0		
750925	0910			3	13	22.0				1.6		
750925	1610			3	13	23.0				1.3		
750930	1245			3	13	22.5				5.3		
751002	0830			3	13	21.0				6.6		
751002	1430			3	13	21.5				7.6		
751007	0845			3	13	20.0				5.2		
751007	1530			3	13	20.0				5.6		

APPENDIX C-2
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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-02.5B CHATTAHOOCHEE R NEAR DAM CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
751008	0915			1	13	20.8				5.2		6.0
751009	0835			3	13	16.5				5.8		
751009	1505			3	13	21.0				6.0		
751028	0830			3	13	19.0				6.5		
751028	1500			3	13	19.5				8.1		
751030	0845			3	13	18.5				8.4		
751030	1530			3	13	20.0				8.3		
751104	1130			3	13	18.5				5.8		
751104	1530			3	13	19.0				6.2		
751106	0845			3	13	18.0				5.3		
751106	1345			3	13	18.0				5.0		
751113	0815			1	13	18.1				6.6		5.5
751118	0845			3	13	16.0				5.5		
751118	1600			3	13	16.0				6.6		

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750414	2000			1	2000	14	0.05	0.32	0.05	2.3	10	900
750415	1520			1	2000	17	0.04	0.31	0.06	1.1	11	750
750416	1515			1	2000	17	0.04	0.31	0.06	1.5	10	662
750417	1630			1	2000	15	0.05	0.30	0.06	1.2	8	850
750418	0746			1	2000	14	0.05	0.29	0.06	2.3		800
750908	1630			1	13		0.39	0.02	0.04			
750915	1650			1	2000	22	0.15	0.01K	0.03	2.9	18	608
750916	1500			1	2000	20	0.17	0.01K	0.04	2.6	17	636
750917	1515			1	2000	20	0.17	0.01	0.03	2.9	17	670
750918	1615			1	2000	23	0.30	0.03	0.05	2.9	16	1384
750919	0735			1	2000	19	0.23	0.03	0.03	2.6	16	1397
751008	0915			1	13		0.20	0.36	0.03			
751113	0815			1	13		0.05	0.32	0.03			

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L
750414	2000			1	2000	120	10	76	69	7	0.26
750415	1520			1	2000	135	55	52	43	9	0.23
750416	1515			1	2000	125	34				0.23
750417	1630			1	2000	160	95	112	110	2	0.78
750418	0746			1	2000	135	112	46	36	10	0.30
750915	1650			1	2000	305	5K	86	76	10	0.40

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-02.58 CHATTAHOOCHEE R NEAR DAM CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L
750916	1500			1	2000	315	2K	48	45	3	0.30
750917	1515			1	2000	280	2K	30	29	1	0.39
750918	1615			1	2000	525	2K	36	22	14	0.61
750919	0735			1	2000	388	2K	88	77	9	0.37
751008	0915			1	13		30K				

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L
750414	2000			1	2000					2K	
750415	1520			1	2000	415			0.04	2K	
750416	1515			1	2000	225	110			2K	
750417	1630			1	2000	225	130			2K	
750418	0746			1	2000	225	115			2K	
750708	0930			1	13			28.5			
750709	0930			1	13			29.0			
750710	0830			1	13			23.0			
750710	0845			1	13			23.5			
750711	0940			1	13			23.0			
750714	0800			1	13			22.5			
750715	0800			1	13			22.0			
750716	1100			1	13			25.0			
750717	0800			1	13			22.5			
750721	0845			1	13			24.0			
750722	1015			1	13			26.0			
750722	1515			1	13			32.5			
750724	0830			1	13			24.0			
750724	1300			1	13			30.0			
750728	0745			1	13			22.5			
750804	1015			1	13			26.0			
750804	1530			1	13			32.5			
750806	0830			1	13			24.0			
750806	1315			1	13			25.0			
750808	0830			1	13			23.0			
750904	0815			1	13			22.5			
750904	1430			1	13			40.0			
750905	0830			1	13			21.0			
750908	0800			1	13			21.0			
750908	1500			1	13			33.0			
750908	1630			1	13			29.0	0.03		
750911	0845			1	13			20.0			
750915	1650			1	2000	210	239		0.02	8	
1916	1500			1	2000	296	227		0.02	2K	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-02.58 CHATTAHOOCHEE R NEAR DAM CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L
750917	1515			1	2000	231	204		0.02	2K	
750918	1615			1	2000	818	515		0.03	2K	
750919	0735			1	2000	108	142		0.02	2K	
750923	0845			3	13			19.0			
750925	0910			3	13			14.5			
750925	1610			3	13			19.0			
750930	1245			3	13			23.0			
751002	0830			3	13			17.0			
751002	1430			3	13			29.0			
751007	0845			3	13			20.0			
751007	1530			3	13			22.0			
751008	0915			1	13			21.3			1.98
751009	0835			3	13			20.0			
751009	1515			3	13			28.5			
751028	0830			3	13			17.0			
751028	1500			3	13			27.0			
751030	0845			3	13			14.0			
751030	1530			3	13			24.0			
751104	1130			3	13			27.0			
751104	1530			3	13			25.0			
751106	0845			3	13			18.0			
751106	1345			3	13			27.0			
751113	0815			1	13				0.02		3.19
751118	0845			3	13			11.0			
751118	1600			3	13			22.0			

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR MOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750414	1730			1	2000	15.0	28	45	38	4.8	0.8	6.3
750414	1735			60	2000	15.0	43	50	42		0.8	6.3
750415	1725			1	2000	15.0	20	40	44	6.6	0.5	6.4
750415	1730			45	2000	14.5				6.5		
750415	1731			58	2000		28	45	42		0.5	6.2
750416	1840			1	2000	14.8	18	35	40	8.0	1.2	
750416	1841			6	2000	15.5				7.1		
750416	1842			11	2000	15.0				6.9		
750416	1843			16	2000	14.8				6.9		
750416	1844			21	2000	14.5				6.8		
750416	1845			26	2000	14.5				6.8		
750416	1846			31	2000	14.5				6.8		
750416	1847			36	2000	14.5				6.8		
750416	1848			39	2000	14.5				6.8		
750416	1849			44	2000	14.5				6.8		
750416	1856			60	2000		23	40	38	6.7		
750417	0845			1	2000	14.8	23	45	41		0.6	6.5
750417	0846			6	2000	14.8				7.6	0.8	6.6
750417	0847			11	2000	14.8				7.5		
750417	0848			16	2000	14.5				7.1		
750417	0849			21	2000	14.5				7.0		
750417	0850			26	2000	14.3				7.0		
750417	0851			31	2000	14.3				6.8		
750417	0852			36	2000	14.3				6.8		
750417	0853			41	2000	14.3				6.7		
750417	0854			44	2000	14.3				6.7		
750417	0855			65	2000	14.3				6.7		
750418	0750			1	2000	15.0	40	50	41	6.8	0.9	6.4
750418	0751			6	2000	14.8	29	40	39	7.6	1.0	6.8
750418	0752			11	2000	15.0				7.5		
750418	0753			16	2000	14.0				7.3		
750418	0754			21	2000	14.5				6.8		
750418	0755			26	2000	14.5				6.8		
750418	0756			31	2000	14.5				6.8		
750418	0757			36	2000	14.5				6.7		
750418	0758			41	2000	14.5				6.7		
750418	0759			46	2000	14.3				6.7		
750418	0800			53	2000		30	45	41	6.7		
750519	1330			1	13	26.5					0.7	6.4
750519	1331			6	13	24.5				11.8		6.2
750519	1332			11	13	23.0				13.0		6.6
750519	1333			13	13	22.5				10.8		
750519	1334			16	13	22.5				10.1		
750519	1335			18	13	20.5				7.2		6.5
				21	13	20.0				2.0		
										0.9		

APPENDIX C-2
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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR MOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750519	1337			23	13	19.5				0.7		
750519	1338			26	13	19.5				0.6		
750519	1339			31	13	19.0				0.5		
750519	1340			36	13	18.0				0.1		
750519	1341			41	13	18.0				0.1K		
750519	1342			46	13	17.0				0.1K		6.5
750609	1440			1	13	30.0				8.5		8.3
750609	1441			6	13	28.0				8.0		
750609	1442			11	13	26.5				7.7		8.2
750609	1443			14	13	26.0				4.4		
750609	1444			16	13	26.0				3.2		6.6
750609	1445			18	13	24.5				0.1		
750609	1446			21	13	23.5				0.1		
750609	1447			26	13	21.5				0.1		
750609	1448			31	13	21.0				0.1		
750609	1449			36	13	20.5				0.0		
750609	1450			42	13	20.0				0.0		
750627	1010			1	13	27.5				6.4		6.9
750627	1011			6	13	28.0				6.3		
750627	1012			11	13	27.5				6.2		
750627	1013			13	13	27.5				6.2		
750627	1014			16	13	27.5				6.2		
750627	1015			19	13	27.0				3.6		
750627	1016			21	13	27.0				2.5		
750627	1017			26	13	26.0				0.1		
750627	1018			31	13	24.5				0.0		
750627	1019			36	13	23.5				0.0		6.4
750627	1020			41	13	22.5				0.0		
750714	1430			1	13	28.0				7.7		7.6
750714	1431			6	13	28.0				6.7		
750714	1432			11	13	27.5				6.5		
750714	1433			14	13	27.0				5.8		6.8
750714	1434			16	13	27.0				5.2		
750714	1435			18	13	27.0				3.7		
750714	1436			21	13	27.0				2.6		6.4
750714	1437			23	13	26.5				0.4		
750714	1438			26	13	26.5				0.2		
750714	1439			31	13	25.0				0.1		
750714	1440			36	13	24.5				0.0		
750714	1441			41	13	23.5				0.0		
750729	0820			1	13	27.5				6.7		6.8
750729	0821			6	13	27.5				6.6		
750729	0822			11	13	27.8				6.6		
750729	0823			13	13	28.0				6.3		
750729	0824			16	13	27.8				4.9		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR MOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750729	0825			18	13	27.5				3.4		
750729	0826			21	13	27.0				0.1		6.0
750729	0827			31	13	26.0				0.1K		
750729	0828			41	13	24.5				0.1K		
750729	0829			45	13	24.0				0.1K		
750811	1615			1	13	28.0				7.7		7.5
750811	1616			6	13	27.5				6.7		
750811	1617			11	13	27.1				6.1		
750811	1618			16	13	27.1				5.7		
750811	1619			21	13	27.0				5.6		7.1
750811	1620			23	13	27.0				5.5		
750811	1621			24	13	27.0				5.2		
750811	1622			24	13	27.0						
750811	1623			25	13	27.0				2.1		
750811	1624			26	13	27.0				2.8		
750811	1625			26	13	26.9				1.0		
750811	1626			27	13	26.8				0.5		
750811	1627			28	13	26.7				0.2		
750811	1628			31	13	26.7				0.1K		6.6
750829	0830			1	13	29.0				6.9		7.1
750829	0831			6	13	29.5				6.9		
750829	0832			11	13	29.5				6.8		
750829	0833			16	13	29.5				6.8		
750829	0834			21	13	29.5				6.5		6.4
750829	0835			23	13	27.5				0.1		
750829	0836			26	13	27.5				0.1		
750829	0837			31	13	26.0				0.1		
750829	0838			36	13	25.5				0.1		
750829	0839			41	13	25.0				0.1K		
750829	0840			45	13	25.0				0.1K		
750908	1730			1	13	29.0				6.2		7.2
750908	1731			6	13	29.0				6.2		
750908	1732			11	13	29.0				6.1		
750908	1733			16	13	28.5				5.1		
750908	1734			21	13	28.0				4.5		
750908	1735			23	13	28.0				4.1		
750908	1736			26	13	28.0				0.2		
750908	1737			31	13	26.5				0.1K		
750908	1738			36	13	26.0				0.1K		7.3
750908	1739			41	13	25.5				0.1K		
750914	1930			4	2000	27.0				6.1		
750914	1931			7	2000	27.0				6.0		
50914	1932			11	2000	27.0				5.8		
914	1933			14	2000	27.0				5.6		
										5.3		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR MOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750914	1935			21	2000	26.8				5.0		
750914	1936			25	2000	26.8				4.8		
750914	1937			28	2000	26.8				4.6		
750914	1938			32	2000	26.7				4.3		
750914	1939			35	2000	25.2				0.5		
750914	1940			39	2000	24.9				0.3		
750914	1941			42	2000	24.5				0.2		
750914	1942			44	2000	24.3				0.2		
750914	1943			50	2000	24.1				0.2		
750915	2000			1	2000	26.0	4K	20	70	5.1	0.3	6.4
750915	2001			6	2000	26.0				4.8		
750915	2002			11	2000	26.0				4.8		
750915	2003			16	2000	26.0				5.0		
750915	2004			21	2000	26.0				4.8		
750915	2005			26	2000	26.0				4.8		
750915	2006			31	2000	26.0				4.8		
750915	2007			36	2000	26.0				4.7		
750915	2008			41	2000	26.0	4K	25	75	4.7	1.3	6.2
750915	2009			46	2000	25.0	8	60	75	0.1K	2.7	6.2
750915	2010			51	2000		4K	20	70		0.7	6.3
750915	2011			60	2000							6.2
750915	2012			79	2000		14	350	108		3.4	
750916	1910			1	2000	26.0	4K	20	60	5.0		6.6
750916	1911			6	2000	26.0				4.8		
750916	1912			11	2000	26.0				4.7		
750916	1913			16	2000	26.0				4.6		
750916	1914			21	2000	26.0				4.5		
750916	1915			26	2000	26.0				4.4		
750916	1916			31	2000	26.0				4.2		
750916	1917			36	2000	26.0	4K	20	72	4.5		6.6
750916	1918			40	2000	26.0				4.5		
750916	1919			41	2000	25.0	8	50	77	0.2		6.2
750916	1920			45	2000	25.0	12	40	77	0.0		6.2
750916	1921			75	2000		13	100	110			6.2
750917	0945			1	2000	26.0	4K	20	53	4.5		6.5
750917	0946			6	2000	26.5				4.4		
750917	0947			11	2000	26.5				4.3		
750917	0948			16	2000	26.5				4.2		
750917	0949			21	2000	26.5				4.2		
750917	0950			26	2000	26.5				4.1		
750917	0951			31	2000	26.5				4.1		
750917	0952			33	2000	26.5				4.1		
750917	0953			36	2000	26.2	4K	30	61	3.1		6.3
750917	0954			39	2000	26.0				0.7		
750917	0955			41	2000	25.8	11	50	71	0.4		6.3

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR HOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750917	0956			45	2000	25.2	8	50	76	0.3		
750917	0957			46	2000							
750917	0958			74	2000		14	140	122			6.2
750918	1725			1	2000	26.0	4K	20	61	4.3		6.3
750918	1726			6	2000	25.8				4.0		6.5
750918	1727			11	2000	25.5				3.6		
750918	1728			16	2000	25.5				3.5		
750918	1729			21	2000	25.5				3.5		
750918	1730			26	2000	25.5				3.5		
750918	1731			31	2000	25.5				3.6		
750918	1732			36	2000	25.5	4K	30	61	3.5		6.4
750918	1733			41	2000	25.2	6	40	66	0.1		6.1
750918	1734			45	2000	25.0	4K	20	61	0.0		6.2
750918	1735			74	2000		11	240	112			
750919	0830			1	2000	25.2	4K	20	60	4.1		6.2
750919	0831			6	2000	25.2				3.9		
750919	0832			11	2000	25.2				3.8		
750919	0833			16	2000	25.2				3.8		
750919	0834			21	2000	25.4				3.7		
750919	0835			26	2000	25.4				3.7		
750919	0836			31	2000	25.4				3.6		
750919	0837			36	2000	25.4				3.6		
750919	0838			38	2000	25.2	4K	20	72	3.5		6.1
750919	0839			40	2000	25.0				0.7		
750919	0840			41	2000	25.0	4K	60	72	0.4		5.9
750919	0841			45	2000	24.8	6	60	72	0.1		6.1
750919	0842			50	2000	24.2				0.2		
750919	0843			55	2000	23.8				0.3		
750919	0844			60	2000	23.5				0.2		
750919	0845			70	2000	23.2				0.2		
750919	0846			73	2000		8	70	72			5.9
750919	0847			75	2000	22.8				0.2		
750920	0830			1	2000	25.6	4K	20	72	4.8	0.8	6.2
750920	0831			6	2000	25.6				4.6		
750920	0832			11	2000	25.5				3.6		
750920	0833			16	2000	25.4				3.0		
750920	0834			21	2000	25.3				3.0		
750920	0835			26	2000	25.3				3.0		
750920	0836			31	2000	25.3	4K	20	72	3.0	0.7	6.1
750920	0837			36	2000	25.3	4K	30	72	2.0	0.2	6.0
750920	0838			38	2000	25.2				0.3		
750920	0839			41	2000	25.0	4K	120	72	0.4	4.6L	5.9
750920	0840			45	2000	24.9				0.3		
750920	0841			50	2000	24.9				0.0		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
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STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR MOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750920	0843			60	2000	24.2				0.0		
750920	0844			65	2000	24.2				0.0		
750920	0845			70	2000	23.9				0.0		
750920	0846			73	2000		22	280	99		3.7L	5.8
750920	0847			75	2000	23.9				0.0		
750924	0945			1	13	23.8				2.5		
750924	0946			3	13	23.8				2.5		
750924	0947			6	13	24.0				2.5		
750924	0948			11	13	24.0				2.5		
750924	0949			16	13	24.0				2.5		
750924	0950			21	13	24.0				2.5		
750924	0951			26	13	24.0				2.5		
750924	0952			31	13	24.0				2.5		
750924	0953			36	13	24.0				2.5		
750924	0954			41	13	24.0				2.5		
750924	0955			45	13	24.0				2.5		
750925	1535			1	2000	23.0	4	20	60	2.0		6.0
750925	1536			6	2000	23.2				2.0		
750925	1537			11	2000	23.2				1.9		
750925	1538			16	2000	23.2				1.7		
750925	1539			21	2000	23.2				1.6		
750925	1540			26	2000	23.2				1.6		
750925	1541			31	2000	23.2				1.7		
750925	1542			36	2000	23.2	4	40	72	1.4		6.0
750925	1543			41	2000	23.2				0.8		
750925	1544			45	2000	23.2				0.9		
750925	1545			50	2000	23.2				0.2		
750925	1546			55	2000	23.2				0.4		
750925	1547			60	2000	23.3				0.4		
750925	1548			65	2000	23.3				0.4		
750925	1549			70	2000	23.3				0.1		
750925	1550			75	2000	23.0	16	200	99	0.3		5.9
751008	1022			1	13	21.0				5.6		6.3
751008	1023			3	13	21.0				5.6		
751008	1024			6	13	20.8				5.6		
751008	1025			11	13	21.0				5.4		
751008	1026			16	13	21.0				4.8		
751008	1027			21	13	21.0				4.6		
751008	1028			26	13	20.8				4.6		
751008	1029			31	13	20.8				4.4		
751008	1030			36	13	20.8				4.6		6.5
751008	1031			41	13	20.8				4.7		
751008	1032			46	13	20.5				4.7		
751113	1000			1	13	19.0				6.1		6.3
751113	1001			3	13	19.0				6.1		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR MOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
751113	1002			6	13	19.0				6.1		
751113	1003			11	13	19.0				6.1		
751113	1004			16	13	19.0				6.0		
751113	1005			21	13	19.0				6.0		
751113	1006			26	13	19.0				6.0		
751113	1007			31	13	19.0				6.0		
751113	1008			36	13	19.0				6.0		
751113	1009			41	13	19.0				6.0		
751113	1010			46	13	18.8				5.8		
751113	1011			55	13					2.9		

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750414	1730			1	2000	15	0.08	0.32	0.10	1.1	9	1050
750414	1735			60	2000	16	0.15	0.32	0.15	1.1	10	1750
750415	1725			1	2000	16	0.05	0.31	0.07	1.7	10	650
750415	1731			58	2000	18	0.05	0.30	0.07	1.7	10	800
750416	1840			1	2000	19	0.04	0.31	0.06	1.5	10	600
750416	1856			60	2000	19	0.04	0.30	0.06	1.2	10	850
750417	0845			1	2000	15	0.06	0.30	0.06	1.2	10	700
750417	0855			65	2000	16	0.07	0.30	0.07	1.2	10	1400
750418	0750			1	2000	12	0.05	0.28	0.05	2.3		900
750418	0800			53	2000	14	0.06	0.29	0.07	2.0		900
750519	1330			1	13		0.02K	0.05	0.07			
750519	1342			46	13		0.17	0.02K	0.08			
750609	1440			1	13		0.02K	0.02K	0.02			
750609	1450			42	13		0.02K	0.02K	0.02			
750714	1430			1	13		0.02K	0.02K	0.02			
750714	1440			36	13		0.41	0.02K	0.07			
750811	1615			1	13		0.02K	0.02K	0.02			
750811	1628			31	13		0.12	0.02K	0.02			
750908	1730			1	13		0.04	0.02K	0.02K			
750908	1738			36	13		0.02	0.02K	0.02K			
750915	2000			1	2000	19	0.10	0.01	0.02	4.3		200
750915	2008			41	2000	19	0.23	0.01K	0.05	4.3		
750915	2009			46	2000	20	0.44	0.01K	0.06	4.3		1830
750915	2010			51	2000	19	0.09	0.01K	0.03	2.9		300
750915	2012			79	2000	58	1.95	0.03	0.28	6.5		12400
750916	1910			1	2000	18	0.08	0.07	0.03	2.6	17	221
750916	1917			36	2000	19	0.10	0.08	0.04	2.9	17	163
50916	1919			41	2000	23	0.47	0.08	0.06	2.8	17	1800
916	1920			45	2000	27	0.51	0.07	0.07	2.9	17	2100

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR MOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750916	1921			75	2000	53	1.86	0.08	0.25	5.4	28	11420
750917	0945			1	2000	19	0.10	0.01K	0.02	2.0	16	215
750917	0953			36	2000	19	0.19	0.07	0.03	2.6	16	491
750917	0955			41	2000	27	0.56	0.07	0.06	2.9	16	2300
750917	0956			45	2000	29	0.68	0.07	0.10	2.9	18	4210
750917	0958			74	2000	61	2.42	0.08	0.28	6.4	33	15220
750918	1725			1	2000	28	0.15	0.05	0.04	2.3	16	257
750918	1732			36	2000	28	0.12	0.01K	0.03	2.0	17	257
750918	1733			41	2000	28	0.43	0.08	0.04	2.9	16	1330
750918	1734			45	2000	22	0.67	0.01K	0.09	2.1	16	3710
750918	1735			74	2000	60	1.17	0.05	0.15	4.3	29	7990
750919	0830			1	2000	20	0.15	0.03	0.02	2.6	16	255
750919	0838			38	2000	20	0.14	0.03	0.02	2.9	16	210
750919	0840			41	2000	19	0.40	0.02	0.04	2.6	16	1370
750919	0841			45	2000	21	0.17	0.03	0.02	4.3	16	315
750919	0846			73	2000	20	1.99	0.03	0.22	5.4	16	13000
750920	0830			1	2000	19	0.12	0.03	0.03	4.0	16	181
750920	0836			31	2000	18	0.15	0.02	0.03	2.5	16	222
750920	0837			36	2000	22	0.20	0.01	0.04	3.0	16	380
750920	0839			41	2000	20	0.55	0.01	0.04	3.0	16	1290
750920	0846			73	2000	33	1.96	0.02	0.20	5.3	25	11900
750925	1535			1	2000	17	0.27	0.05	0.03	2.0	16	72
750925	1542			36	2000	20	0.26	0.03	0.03	2.7	16	96
750925	1550			75	2000	38	1.65	0.01	0.14	5.0	25	
751008	1022			1	13		0.23	0.29	0.03			
751008	1030			36	13		0.35	0.41	0.09			

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750414	1730			1	2000	140	30	60	44	16	0.23	
750414	1735			60	2000	180		57	41	16	0.30	
750415	1725			1	2000	140	45	60	48	12	0.30	160
750415	1731			58	2000	130		72	55	17	0.21	305
750416	1840			1	2000	130	30	42	37	5	0.12	135
750416	1856			60	2000	140		44	39	5	0.21	290
750417	0845			1	2000	140	76	128	126	2	0.21	225
750417	0855			65	2000	165		122	101	21	0.23	205
750418	0750			1	2000	135	146	50	39	11	0.21	205
750418	0800			53	2000	160		36	22	14	0.26	225
750519	1330			1	13		30K				0.70	
750519	1342			46	13						0.30	
750609	1440			1	13		30K				0.60	

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR MOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750609	1450			42	13							
750627	1010			1	13						0.40	
750714	1430			1	13		30K					
750729	0820			1	13		30K					
750811	1615			1	13		30K					
750829	0830			1	13		30K					
750908	1730			1	13		30K					
750915	2000			1	13		30K					
750915	2008			1	2000	174	5K					
750915	2009			41	2000						0.20	
750915	2010			46	2000	755					0.35	
750915	2012			51	2000	287					0.58	
750916	1910			79	2000	2990					0.28	
750916	1917			1	2000	170	2K	64	59	5	2.46	
750916	1919			36	2000	130		52	50	2	0.21	
750916	1920			41	2000	1064		64	61	3	0.24	
750916	1921			45	2000	1154		74	56	18	0.60	
750917	0945			75	2000	2800		102	71	31	0.60	
750917	0953			1	2000	165	2K	72	72	1K	2.05	
750917	0955			36	2000	524		61	60	1	0.34	68
750917	0956			41	2000	1222		64	45	19	0.39	258
750917	0958			45	2000	1264		88	63	25	0.80	
750918	1725			74	2000	3480		138	66	72	0.93	
750918	1732			1	2000	171	2K	42	37	5	2.92	14800
750918	1733			36	2000	169		44	38	6	0.37	90
750918	1734			41	2000	1110		38	30	8	0.33	90
750918	1735			45	2000	1248		36	33	3	0.56	
750919	0830			74	2000	1850		138	114	24	1.16	3645
750919	0838			1	2000	152	2K	82	79	3	1.45	6280
750919	0840			38	2000	145		88	84	4	0.35	213
750919	0841			41	2000	1034		102	94	8	0.25	148
750919	0846			45	2000	151		86	79	7	0.55	
750920	0830			73	2000	3360		94	87	7	0.25	20K
750920	0836			1	2000	89		66	33	33	2.40	13000
750920	0837			31	2000	152		64	42	22	0.35	42
750920	0839			36	2000	468		54	27	27	0.30	74
750920	0846			41	2000	1610		70	39	31	0.43	
750925	1535			73	2000	3040		92	47	45	0.65	1024
750925	1542			1	2000	359		74	55	19	2.23	11220
750925	1550			36	2000	426		68	67	1	0.65	
751008	1022			75	2000	3000		98	83	15	0.65	
				1	13		36				2.23	6740

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR MOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750414	1730			1	2000							
750414	1730								2K			
750414	1735			60	2000						24	
750415	1725			1	2000	110		0.04	2K			
750415	1731			58	2000	110			2K			
750416	1840			1	2000	105			2K			
750416	1840								2K			
750416	1856			60	2000	115					30	
750417	0840				2000				2K			
750417	0845			1	2000	115					30	
750417	0855			65	2000	120			2K			
750418	0750			1	2000	130			2K			
750418	0750								2K			
750418	0800			53	2000	140					24	
750519	1330			1	13		30.0	0.04	2K	55.30		
750519	1331			6	13					23.00		
750519	1334			16	13					16.50		
750519	1342			46	13			0.03				
750609	1440			1	13		30.0	0.02K				
750609	1444			16	13					16.65		
750609	1450			42	13			0.02K				
750627	1010			1	13		25.5					
750714	1430			1	13		25.0	0.02K		2.60		
750714	1433			14	13					2.75		
750714	1436			21	13					1.36		
750714	1440			36	13			0.02K				
750811	1615			1	13			0.02K		1.82		
750811	1617			11	13					4.97		
750811	1619			21	13					8.80		
750811	1628			31	13			0.02K				
750908	1730			1	13		27.5	0.02K		16.20		
750908	1732			11	13					6.67		
750908	1734			21	13					3.63		
750908	1738			36	13			0.02K				
750915	2011			60	2000							1.0K
750916	1910			1	2000				2K			
750916	1917			36	2000				2K			
750916	1919			41	2000				2K			
750916	1920			45	2000				2K			
750916	1921			75	2000				2K			1.0K
750917	0945			1	2000	10K		0.02	2K			
750917	0953			36	2000	459		0.02	2K			
750917	0955			41	2000				2K			
750917	0956			45	2000			0.08	2K			
750917	0958			74	2000			0.26	2K			

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-03 CHATTAHOOCHEE R AT MAPLE CR MOUT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750918	1725			1	2000	25		0.02	3			
750918	1732			36	2000	28		0.01	2			
750918	1733			41	2000				2			
750918	1734			45	2000			0.07	4			
750918	1735			74	2000	1700		0.09	2K			1.0K
750919	0830			1	2000	12		0.02	2K			
750919	0838			38	2000	45		0.02	4			
750919	0840			41	2000				2K			
750919	0841			45	2000	10K		0.02	4			
750919	0846			73	2000	3310		0.19	2			1.0K
750920	0830			1	2000	10K		0.02	4			
750920	0836			31	2000	28		0.02	4			
750920	0837			36	2000				4			
750920	0839			41	2000	1620		0.03	2			1.0K
750920	0846			73	2000	2850		0.17	2K			1.0K
750925	1535			1	2000			0.02	4			
750925	1542			36	2000			0.02	2			
750925	1550			75	2000			0.05	2K			
751008	1022			1	13		21.1					
751008	1023			3	13					3.80		
751008	1024			6	13					2.68		
751008	1025			11	13					2.85		
751008	1030			36	13			0.07				
751113	1000			1	13		35.0			3.44		
751113	1002			6	13					4.85		
751113	1003			11	13					7.33		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-04 WEHADKEE CR HWY 244 W LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750415	1330			1	2000	12.0	56	50	23	9.1	1.4
750416	1350			1	2000	15.0	47	40	24	10.0	0.9
750417	0850			1	2000	13.0	37	40	28	9.4	0.9
750418	0855			1	2000	15.0	27	40	29	8.7	0.9
750915	1355			1	2000	25.5	5	20	56	5.1	1.8
750916	1250			1	2000	25.0	4K	20	54	5.8	
750917	1140			1	2000	25.0	4K	20	59	4.8	
750918	1305			1	2000	25.0	4K	30	54	5.0	
750919	1030			1	2000	24.8	4K	20	48	3.9	

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L
750415	1330			1	2000	6.4	12	0.01K	0.07	0.02	4.8
750416	1350			1	2000	6.8	11	0.01	0.08	0.02	4.0
750417	0850			1	2000	6.4	11	0.01	0.10	0.02	4.1
750418	0855			1	2000	6.6	13	0.01K	0.09	0.05	1.8
750915	1355			1	2000	6.7	19	0.01K	0.01K	0.02	3.3
750916	1250			1	2000	6.6	19	0.01	0.01K	0.03	4.0
750917	1140			1	2000	6.5	19	0.02	0.01K	0.03	3.3
750918	1305			1	2000	6.5	26	0.02	0.09	0.03	2.9
750919	1030			1	2000	6.5	18	0.04	0.04	0.02	2.9

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L
750415	1330			1	2000	6	1950	155	2500	54	10
750416	1350			1	2000	8	1600	120		54	34
750417	0850			1	2000	6	1200	140	220	58	42
750418	0855			1	2000		1050	100	70	64	52
750915	1355			1	2000	16	278	140	5K	76	69
750916	1250			1	2000	17	458	181	2K	48	45
750917	1140			1	2000	15	440	153	2K	40	40
750918	1305			1	2000	13	451	170	2K	34	31
750919	1030			1	2000	14	463	175	2	86	83

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-04 WEHADKEE CR HWY 244 W LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L
750415	1330			1	2000	44	0.12				2K
750416	1350			1	2000	20	0.16	350			2K
750417	0850			1	2000	16	0.26	385			2K
750418	0855			1	2000	12	0.10	225	85		2K
750915	1355			1	2000	7	0.20	42	34	0.02	2K
750916	1250			1	2000	3	0.21	183	40	0.02	2K
750917	1140			1	2000	1K	0.26	68	10K	0.02	2K
750918	1305			1	2000	3	0.27	95	50	0.01	2K
750919	1030			1	2000	3	0.16	103	42	0.01	2K

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-05 CHATTAHOOCHEE R GA238 W OF LAGRA CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750414	1535			1	2000	15.5	21	45	45	5.6	0.6	6.5
750414	1540			47	2000	15.5	48	47	45	5.3	0.9	6.5
750415	1600			1	2000	15.0	23	35	42	7.6	0.5	6.4
750415	1603			39	2000	14.0	20	35	41	7.4	0.6	6.4
750416	1555			1	2000	14.5	33	50	39	7.3	0.9	6.3
750416	1556			4	2000	14.5				7.3		
750416	1557			9	2000	14.0				7.3		
750416	1558			14	2000	14.0				7.3		
750416	1559			19	2000	14.0				7.3		
750416	1600			24	2000	14.0				7.4		
750416	1601			29	2000	14.0				7.4		
750416	1602			34	2000	14.0	36	60	39	7.4	0.5	6.2
750417	1055			1	2000	14.5	37	50	44	6.7	0.7	6.2
750417	1056			4	2000	14.3				6.7		
750417	1057			9	2000	14.3				6.7		
750417	1058			14	2000	14.3				6.7		
750417	1059			19	2000	14.3				6.6		
750417	1100			24	2000	14.0				6.7		
750417	1101			29	2000	14.0				6.7		
750417	1102			34	2000	14.3				6.6		
750417	1103			39	2000	14.3				6.6		
750417	1104			44	2000	14.3	64	60	44	6.6	0.9	6.3
750418	0955			1	2000	14.8	32	40	40	7.4	1.1	6.5
750418	0956			6	2000	14.8				7.4		
750418	0957			11	2000	14.6				7.4		
750418	0958			16	2000	14.5				7.3		
750418	0959			21	2000	14.5				7.3		
750418	1000			26	2000	14.5				7.3		
750418	1001			31	2000	14.5				7.2		
750418	1002			36	2000	14.5				7.2		
750418	1003			41	2000	14.5	33	45	40	7.2	1.0	6.4
750519	1810			1	13	28.0				11.2		8.1
750519	1811			6	13	24.0				11.2		
750519	1812			11	13	22.5				5.3		
750519	1813			13	13	21.5				5.6		
750519	1814			16	13	21.5				3.5		
750519	1815			18	13	20.0				1.9		
750519	1816			21	13	20.0				1.8		
750519	1817			26	13	19.5				1.3		
750519	1818			31	13	19.0				1.2		
750519	1819			36	13	19.0				1.2		7.3
750519	1820			40	13	19.0				0.7		
750609	1740			1	13	27.0				9.8		8.0
750609	1741			6	13	27.5				9.6		
750609	1742			11	13	27.0				7.8		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-05 CHATTAHOOCHEE R (A238 W OF LAGRA CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750609	1743			14	13	25.0						
750609	1744			16	13	24.5				1.7		
750609	1745			18	13	23.5				0.6		
750609	1746			21	13	23.0				0.3		
750609	1747			26	13	22.0				0.3		
750609	1748			31	13	22.0				0.3		
750609	1749			36	13	21.5				0.3		
750609	1750			41	13	21.0				0.3		
750609	1751			45	13	21.0				0.3		7.9
750627	0830			1	13	26.0				0.3		
750627	0831			6	13	26.0				6.8		6.2
750627	0832			8	13	27.0				6.7		
750627	0833			11	13	27.0				6.6		
750627	0834			13	13	27.0				6.5		
750627	0835			16	13	27.0				6.5		
750627	0836			19	13	26.0				6.0		
750627	0837			21	13	26.0				1.2		
750627	0838			26	13	24.5				0.3		
750627	0839			31	13	24.0				0.1		6.9
750627	0840			36	13	23.5				0.1		
750627	0841			41	13	23.0				0.1		
750714	1615			1	13	30.5				0.1		
750714	1616			6	13	28.5				8.3		
750714	1617			11	13	27.5				8.2		
750714	1618			14	13	27.0				7.0		
750714	1619			16	13	27.0				3.5		
750714	1620			21	13	26.5				3.2		
750714	1621			26	13	26.0				0.1		
750714	1622			31	13	25.0				0.0		
750714	1623			36	13	24.5				0.0		
750714	1624			41	13	24.0				0.0		
750728	1740			1	13	29.5				0.0		
750728	1741			6	13	29.0				8.3		7.2
750728	1742			8	13	28.5				8.3		
750728	1743			11	13	28.5				6.6		
750728	1744			13	13	28.5				6.9		
750728	1745			16	13	28.0				6.1		
750728	1746			18	13	28.0				4.9		
750728	1747			21	13	27.5				2.5		
750728	1748			31	13	26.0				0.1		6.8
750811	1750			1	13	28.0				0.1K		
750811	1751			6	13	28.0				8.6		8.0
750811	1752			11	13	27.5				8.0		
750811	1753			13	13	27.0				6.3		
750811	1754			16	13	27.0				5.5		
										4.0		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-05 CHATTAHOOCHEE R GA238 W OF LAGRA CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750811	1755			18	13	27.0				3.1		
750811	1756			21	13	27.0				0.9		
750811	1757			26	13	26.0				0.1		6.9
750811	1758			31	13	26.0				0.1K		
750811	1759			36	13	26.0				0.1K		
750811	1800			41	13	25.5				0.1K		
750811	1801			45	13	25.0				0.1K		
750828	1730			1	13	29.0				6.3		6.9
750828	1731			6	13	29.0				6.0		
750828	1732			11	13	28.5				5.4		
750828	1733			13	13	28.5				4.2		
750828	1734			16	13	28.5				1.8		
750828	1735			18	13	28.0				1.4		
750828	1736			21	13	27.0				0.1		6.2
750828	1737			26	13	26.0				0.1		
750828	1738			31	13	25.5				0.1		
750828	1739			36	13	25.0				0.1		
750828	1740			41	13	25.0				0.1		
750828	1741			44	13	25.0				0.1		
750915	1900			1	2000	25.8	4K	25	65	4.2	0.6	6.3
750915	1901			6	2000	26.0				4.3		
750915	1902			11	2000	26.0				4.2		
750915	1903			16	2000	26.0				4.2		
750915	1904			21	2000	26.0				4.5		
750915	1905			26	2000	25.8	4	25	60	4.7		6.3
750915	1906			31	2000	25.8	4	30	72	3.0		6.3
750915	1907			36	2000	25.5	12	35	72	0.2		6.1
750915	1908			41	2000	25.0				0.1K		
750915	1909			45	2000	24.5				0.0		
750915	1910			61	2000		9	35	66			6.3
750916	1735			1	2000	25.3	4K	20	71	3.5		6.6
750916	1736			6	2000	25.3				3.4		
750916	1737			11	2000	25.3				3.1		
750916	1738			16	2000	25.3				3.1		
750916	1739			21	2000	25.0				3.4		
750916	1740			26	2000	25.0				3.8		
750916	1741			31	2000	25.0				4.3		
750916	1742			36	2000	25.0	4K	20	71	4.0		6.6
750916	1743			38	2000	25.0				3.9		
750916	1744			39	2000	25.0				3.9		
750916	1745			40	2000	25.0	10	30	71	3.0		6.3
750916	1746			41	2000	24.5				0.0		
750916	1747			45	2000	24.5	21	60	71	0.0		6.3
750916	1748			62	2000		13	60	66			6.3
750917	1145			1	2000	25.2	4K	20	61	4.3		6.5

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STATION - CH-05 CHATTAHOOCHEE R GA238 W OF LAGRA CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750917	1146			6	2000	25.5				4.1		
750917	1147			11	2000	25.5				4.0		
750917	1148			16	2000	25.2				4.1		
750917	1149			21	2000	25.2				4.0		
750917	1150			26	2000	25.2				4.0		
750917	1151			31	2000	25.2				3.8		
750917	1152			36	2000	25.2	4K	20	61	3.6		6.5
750917	1153			41	2000	25.2	8	30	66	3.4		
750917	1154			42	2000	24.5				0.1K		
750917	1155			43	2000	24.5				0.1K		
750917	1156			45	2000	24.5	16	50	66	0.1K		6.1
750917	1157			60	2000		16	50	56			6.2
750918	1545			1	2000	25.8	4K	20	66	3.7		6.4
750918	1546			6	2000	25.2				3.5		
750918	1547			11	2000	25.2				3.1		
750918	1548			16	2000	25.0				2.7		
750918	1549			21	2000	25.0				2.6		
750918	1550			26	2000	25.0				2.6		
750918	1551			31	2000	25.0				2.6		
750918	1552			36	2000	25.0				2.6		
750918	1553			41	2000	25.0	4K	20	66	1.9		6.2
750918	1554			43	2000	25.0				1.8		
750918	1555			45	2000	24.8	7	30	66	0.9		6.1
750918	1556			47	2000	24.2	13	50	66	0.2		6.0
750918	1557			51	2000		15	60	66			5.9
750919	1020			1	2000	25.0	24	20	72	4.7		6.1
750919	1021			6	2000	25.0				4.2		
750919	1022			11	2000	25.0				3.9		
750919	1023			16	2000	25.0				3.7		
750919	1024			21	2000	25.0				3.7		
750919	1025			26	2000	25.0				3.5		
750919	1026			31	2000	25.0				3.5		
750919	1027			36	2000	25.0	5	20	72	3.5		6.1
750919	1028			41	2000	24.9				2.6		
750919	1029			43	2000	24.9	5	30	72	2.4		6.0
750919	1030			45	2000	24.5				1.1		
750919	1031			47	2000	24.2				0.9		
750919	1032			48	2000	24.2				0.5		
750919	1033			50	2000	23.8	11	60	72	0.0		5.9
750919	1034			55	2000	23.4				0.0		
750919	1035			60	2000	23.3	18	80	72	0.0		5.9
750919	1036			65	2000	23.2				0.0		
750919	1037			67	2000	23.2				0.0		
750919	1630			1	2000	26.9				4.6		

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STATION - CH-05 CHATTAHOOCHEE R GA238 W OF LAGRA CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750919	1632			11	2000	25.3				3.3		
750919	1633			16	2000	25.3				2.0		
750919	1634			21	2000	25.2				2.4		
750919	1635			26	2000	25.1				2.4		
750919	1636			31	2000	25.1				2.4		
750919	1637			36	2000	25.1				2.0		
750919	1638			41	2000	25.0				1.7		
750919	1639			45	2000	24.9				0.1		
750919	1640			50	2000	24.5				0.0		
750919	1641			55	2000	24.6				0.0		
750919	1642			60	2000	24.7				0.0		
750919	1643			65	2000	24.7				0.0		
750920	1100			1	2000	26.3	6	20	77	6.0	1.6	6.4
750920	1101			3	2000	26.0				6.9		
750920	1102			6	2000	25.5				3.7		
750920	1103			11	2000	25.2				3.6		
750920	1104			16	2000	25.2				3.3		
750920	1105			21	2000	25.0				3.3		
750920	1106			26	2000	25.0				3.0		
750920	1107			31	2000	25.0				3.0		
750920	1108			36	2000	25.0	4	20	72	2.4	1.2	6.1
750920	1109			41	2000	24.9	6	40	77	1.8	1.4	6.0
750920	1110			42	2000	24.8				1.1		
750920	1111			43	2000	24.8				0.3		
750920	1112			44	2000	24.6				0.2		
750920	1113			45	2000	24.6	8	50	77	0.2	1.0	6.0
750920	1114			50	2000	24.5				0.0		
750920	1115			55	2000	24.0				0.0		
750920	1116			56	2000		14	20	72		3.2	6.0
750920	1117			60	2000	23.8				0.0		
750920	1420			1	2000	27.8				8.4		
750920	1421			6	2000	25.8				7.0		
750920	1422			11	2000	25.3				3.9		
750920	1423			16	2000	25.0				3.4		
750920	1424			21	2000	25.0				3.2		
750920	1425			26	2000	25.0				3.1		
750920	1426			31	2000	25.0				3.1		
750920	1427			36	2000	25.0				2.7		
750920	1428			41	2000	24.8				2.4		
750920	1429			45	2000	24.5				0.2		
750920	1430			50	2000	24.4				0.1		
750920	1431			55	2000	24.4				0.0		
750920	1432			60	2000	24.2				0.0		
750920	1433			65	2000	24.1				0.0		
750924	1030			1	13	23.3				4.4		

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WEST POINT LAKE, GEORGIA

STATION - CH-05 CHATTAHOOCHEE R GA238 W OF LAGRA CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750924	1031			3	13	23.5				4.4		
750924	1032			6	13	23.5				4.4		
750924	1033			11	13	23.5				4.4		
750924	1034			16	13	23.5				4.4		
750924	1035			21	13	23.5				4.4		
750924	1036			26	13	23.5				4.4		
750924	1037			31	13	23.5				4.3		
750924	1038			36	13	23.5				4.3		
750924	1039			41	13	23.5				4.3		
750924	1040			46	13	23.3				4.3		
750925	1750			1	2000	23.1	5	20	72	4.6		6.2
750925	1751			5	2000	23.1				4.6		
750925	1752			10	2000	23.1				4.6		
750925	1753			15	2000	23.1				4.6		
750925	1754			20	2000	23.0				4.6		
750925	1755			25	2000	23.0				4.3		
750925	1756			30	2000	23.1				3.5		
750925	1757			35	2000	23.0				4.1		
750925	1758			40	2000	23.0				4.0		
750925	1759			45	2000	23.0				4.0		
750925	1800			50	2000	23.0				3.9		
750925	1801			55	2000	23.0				4.1		
750925	1802			60	2000	22.9	21	20	72	4.0		6.2
751007	1517			1	13	20.5				5.2		6.2
751007	1518			3	13	20.2				5.2		
751007	1519			6	13	20.0				5.2		
751007	1520			11	13	19.8				5.2		
751007	1521			16	13	19.8				5.2		
751007	1522			21	13	19.8				5.2		
751007	1523			26	13	19.8				5.1		
751007	1524			31	13	19.8				5.1		
751007	1525			36	13	19.8				5.1		6.4
751007	1526			41	13	19.5				5.1		
751007	1527			44	13	19.5				5.1		

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750414	1535			1	2000	16	0.07	0.32	0.05	1.7	10	750
750414	1540			47	2000	16	0.07	0.32	0.16	1.4	10	1950
750415	1600			1	2000	19	0.03	0.29	0.06	1.7	10	700
50415	1603			39	2000	18	0.03	0.29	0.08	1.7	10	850
416	1555			1	2000	14	0.07	0.27	0.09	1.8	10	1200

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STATION - CH-05 CHATTAHOOCHEE R GA238 W OF LAGRA CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750416	1602			34	2000	13	0.06	0.26	0.09	1.8	11	1100
750417	1055			1	2000	17	0.06	0.31	0.08	1.5	10	1150
750417	1104			44	2000	16	0.08	0.31	0.16	2.7	8	2825
750418	0955			1	2000	13	0.06	0.30	0.08	2.3		850
750418	1003			41	2000	13	0.06	0.30	0.07	2.3		950
750519	1810			1	13		0.02K	0.06	0.03			
750519	1819			36	13		0.08	0.36	0.07			
750609	1750			41	13		0.03	0.02K	0.02			
750714	1615			1	13		0.05	0.02K	0.02			
750714	1623			36	13		0.53	0.02K	0.11			
750811	1750			1	13		0.02	0.16	0.03			
750811	1757			26	13		0.11	0.18	0.03			
750915	1900			1	2000	18	0.13	0.12	0.03	2.9		225
750915	1905			26	2000	19						356
750915	1906			31	2000	19	0.22	0.23	0.03	2.9		509
750915	1907			36	2000	20	0.45	0.01	0.05	2.9		1190
750915	1910			61	2000	19	0.41	0.40	0.09	3.3		1438
750916	1735			1	2000	23	0.16	0.15	0.03	2.3	16	253
750916	1742			36	2000	23	0.15	0.19	0.04	2.3	16	415
750916	1745			40	2000	24	0.46	0.02	0.07	2.0	16	1295
750916	1747			45	2000	25	0.53	0.07	0.09	2.6	16	1830
750916	1748			62	2000	24	0.46	0.35	0.07	2.0	14	1510
750917	1145			1	2000	18	0.18	0.17	0.02	2.3	16	182
750917	1152			36	2000	18	0.11	0.15	0.03	2.3	16	190
750917	1153			41	2000	31	0.55	0.02	0.06	4.0	17	1162
750917	1156			45	2000	20	0.45	0.09	0.07	2.3	17	1460
750917	1157			60	2000	24	0.51	0.26	0.09	2.3	15	3780
750918	1545			1	2000	20	0.20	0.19	0.04	2.9	16	195
750918	1553			41	2000	21	0.23	0.19	0.04	2.3	16	395
750918	1555			45	2000	21	0.42	0.22	0.06	2.0	15	1100
750918	1556			47	2000	26	0.20	0.23	0.04	2.3	15	165
750918	1557			61	2000	23	0.59	0.28	0.09	2.0	15	1930
750919	1020			1	2000	19	0.20	0.23	0.03	2.6	16	145
750919	1027			36	2000	18	0.23	0.26	0.03	2.6	16	245
750919	1029			43	2000	17	0.30	0.24	0.05	2.3	15	585
750919	1033			50	2000	20	0.65	0.17	0.08	2.6	15	2150
750919	1035			60	2000	18	0.63	0.18	0.08	2.6	15	2150
750920	1100			1	2000	19	0.14	0.17	0.03	2.5	15	108
750920	1108			36	2000	20	0.24	0.29	0.04	2.0	15	321
750920	1109			41	2000	18	0.32	0.37	0.05	2.0	16	647
750920	1113			45	2000	18	0.39	0.32	0.06	2.5	16	1080
750920	1116			56	2000	20	0.60	0.18	0.08	2.5	16	1930
750925	1750			1	2000	18	0.20	0.37	0.04	2.0	16	24
750925	1802			60	2000	21	0.24	0.33	0.06	2.0	16	59
751007	1517			1	13		0.22	0.59	0.05			

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STATION - CH-05 CHATTAHOOCHEE R GA238 W OF LAGRA CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
751007	1525			36	13		0.14	0.61	0.08			

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750414	1535			1	2000	110	230	32	27	5	0.21	
750414	1540			47	2000	160		100	32	68	0.21	
750415	1600			1	2000	125	225	50	32	18	0.19	140
750415	1603			39	2000	135		60	35	25	0.21	100
750416	1555			1	2000	150	460	54	50	4	0.18	130
750416	1602			34	2000	140		50	41	9	0.18	110
750417	1055			1	2000	105	750	110	97	13	0.21	175
750417	1104			44	2000	170		162	99	63	0.21	320
750418	0955			1	2000	85	380	42	26	16	0.21	190
750418	1003			41	2000	85		34	18	16	0.32	
750519	1810			1	13		30K				0.30	
750519	1819			36	13						0.20	
750609	1740			1	13		30K					
750609	1750			41	13						0.30	
750627	0830			1	13		30K					
750714	1615			1	13		30K					
750728	1740			1	13		30K					
750811	1750			1	13		30K					
750828	1730			1	13		30K					
750915	1900			1	2000	160	5K				0.38	
750915	1905			26	2000	140					0.50	
750915	1906			31	2000	260					0.52	
750915	1907			36	2000	950					0.56	
750916	1910			61	2000	677					0.30	25
750916	1735			1	2000	145	2K	58	56	2	0.30	41
750916	1742			36	2000	148		76	74	2	0.60	99
750916	1745			40	2000	980		68	67	1	0.77	
750916	1747			45	2000	936		76	73	3	0.60	387
750916	1748			62	2000	909		62	48	14	0.37	58
750917	1145			1	2000	100	2K	42	22	20	0.25	20K
750917	1152			36	2000	116		42	29	13	0.61	160
750917	1153			41	2000	1037		34	29	5	0.56	102
750917	1156			45	2000	885		30	16	14	0.61	251
750917	1157			60	2000	1037		28	8	20	0.42	20K
750918	1545			1	2000	87	2K	24	18	6	0.65	45
750918	1553			41	2000	338		38	31	7	0.65	
750918	1555			45	2000	752		26	24	2	0.42	20K
750918	1556			47	2000	68		52	42	10		

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-05 CHATTAHOOCHEE R GA238 W OF LAGRA CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750918	1557			61	2000	1093		50	43	7	0.82	178
750919	1020			1	2000	80	2K	84	72	12	0.35	189
750919	1027			36	2000	171		90	82	8	0.39	20K
750919	1029			43	2000	417		68	68	1K	0.30	
750919	1033			50	2000	1350		78	76	2	0.73	153
750919	1035			60	2000	1311		76	71	5	0.77	184
750920	1100			1	2000	65		62	39	23	0.39	
750920	1108			36	2000	175		64	44	20	0.30	
750920	1109			41	2000	493		72	44	28	0.50	
750920	1113			45	2000	790		60	38	22	0.55	
750920	1116			56	2000	1360		68	29	39	0.86	
750925	1750			1	2000	100		56	55	1	0.30	
750925	1802			60	2000	142		86	69	17	0.32	
751007	1517			1	13		30K					

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750414	1535			1	2000				2K			
750414	1535										24	
750414	1540			47	2000				2K			
750415	1600			1	2000	100		0.05	2K			
750415	1600										24	
750415	1603			39	2000	105		0.05	2K			
750416	1555			1	2000	110		0.03	2K			
750416	1602			34	2000	110			2K			
750417	1055			1	2000	75			2K			
750417	1104			44	2000	115			2K			
750417	1105				2000						12	
750418	0955			1	2000				2K			
750418	0955										18	
750418	1003			41	2000				2K			
750519	1810			1	13		30.0	0.02		11.70		
750519	1811			6	13					19.20		
750519	1812			11	13					18.20		
750519	1819			36	13			0.05				
750609	1740			1	13		20.0	0.02K		5.61		
750609	1741			6	13					21.85		
750609	1742			11	13					18.75		
750609	1750			41	13			0.02				
750627	0830			1	13		25.0					
750714	1615			1	13		25.0	0.02K		1.84		
750714	1616			6	13					2.96		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-05 CHATTAHOOCHEE R GA238 W OF LAGRA CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750714	1618			14	13					5.53		
750811	1750			1	13			0.02K		10.04		
750811	1752			11	13					5.66		
750811	1754			16	13					4.80		
750811	1757			26	13			0.02K				
750916	1735			1	2000	10		0.02	4			
750916	1742			36	2000	50		0.02	2K			
750916	1745			40	2000	562		0.02	4			
750916	1747			45	2000				2K			
750916	1748			62	2000	230		0.03	2K			1.0K
750917	1145			1	2000	10K		0.02	4			
750917	1152			36	2000	13		0.02	4			
750917	1153			41	2000	995		0.02	2			
750917	1156			45	2000	881		0.02	3			
750917	1157			60	2000	983		0.02	2			1.0K
750918	1545			1	2000	30		0.02	2			
750918	1553			41	2000	195		0.02	2K			
750918	1555			45	2000				2			
750918	1556			47	2000	10		0.01	3			
750918	1557			61	2000	1090		0.01	2K			1.0K
750919	1020			1	2000	20		0.02	2			
750919	1027			36	2000	28		0.02	3			
750919	1029			43	2000				4			
750919	1033			50	2000	1275		0.02	2			
750919	1035			60	2000	1300		0.02	4			
750920	1100			1	2000	10K		0.02	4			
750920	1108			36	2000	66		0.01	4			
750920	1109			41	2000				4			
750920	1113			45	2000	658		0.01	4			
750920	1116			56	2000	1110		0.02	3			
750925	1750			1	2000				4			
750925	1802			60	2000				4			
751007	1517			1	13			0.04		5.12		
751007	1519			6	13					12.06		
751007	1520			11	13					2.19		
751007	1525			36	13			0.04				

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-06 CHATTAHOOCHEE R GA HY109 W LAGRA CHATTAHOOCHEE GDPH 16

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750414	1505			1	2000	15.0	17	40	41	6.4	0.6	6.5
750414	1510			38	2000	15.0	18	40	41	6.4	0.8	6.6
750415	1505			1	2000	14.0	40	45	37	7.4	0.6	6.4
750415	1510			34	2000	13.0	39	40	37	8.1	1.1	6.4
750416	1330			1	2000	15.0	47	50	46	7.2	1.2	6.2
750416	1335			25	2000	14.5				7.1		
750416	1336			35	2000		48	50	45		1.1	6.2
750417	1130			1	2000	14.0	29	50	39	7.7	0.8	6.6
750417	1131			2	2000	14.0				7.7		
750417	1132			6	2000	14.0				7.7		
750417	1133			9	2000	14.0				7.7		
750417	1134			13	2000	14.0				7.7		
750417	1135			16	2000	14.0				7.7		
750417	1136			20	2000	14.0				7.7		
750417	1137			24	2000	14.0				7.7		
750417	1138			27	2000	14.0				7.7	0.8	6.5
750417	1139			31	2000	14.0	37	40	39	7.9	0.9	6.7
750418	1015			1	2000	15.0	22	30	39	7.9		
750418	1016			6	2000	15.0				7.8		
750418	1017			11	2000	14.8						
750418	1018			16	2000	14.8						
750418	1019			21	2000	14.8						
750418	1020			26	2000	14.8						7.2
750418	1021			31	2000	14.8				11.2		7.2
750519	1915			1	13	26.5				10.6		
750519	1916			6	13	23.5				6.2		6.9
750519	1917			8	13	21.5				4.8		
750519	1918			11	13	21.5				4.6		
750519	1919			16	13	21.0				4.5		
750519	1920			21	13	21.0				4.4		
750519	1921			26	13	21.0				4.4		
750519	1922			31	13	20.5				4.3		
750519	1923			36	13	20.5				3.5		
750519	1924			41	13	20.5				1.1		8.0
750519	1925			46	13	19.0				8.4		
750609	1945			1	13	27.0				8.4		
750609	1946			6	13	26.5				4.0		
750609	1947			11	13	25.5				3.0		
750609	1948			14	13	24.5				2.8		
750609	1949			16	13	24.5				0.8		
750609	1950			21	13	24.0				0.3		
750609	1951			26	13	23.0				0.2		
750609	1952			31	13	22.0				0.2		
750609	1953			36	13	21.5				0.2		
750609	1954			41	13	20.5						

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-06 CHATTAHOOCHEE R GA HY109 W LAGRA CHATTAHOOCHEE GDPH 16

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750626	1840			1	13	27.0				9.2		7.0
750626	1841			6	13	28.0				9.1		
750626	1842			9	13	27.5				9.0		
750626	1843			11	13	27.5				5.2		
750626	1844			13	13	26.5				3.5		
750626	1845			16	13	26.5				0.4		
750626	1846			21	13	25.0				0.1		
750626	1847			26	13	24.0				0.1		6.6
750626	1848			31	13	24.0				0.1		
750626	1849			36	13	23.5				0.1		
750626	1850			41	13	23.5				0.0		
750714	1700			1	13	27.5				8.2		
750714	1701			6	13	27.0				8.0		
750714	1702			8	13	26.5				5.0		
750714	1703			11	13	25.0				4.0		
750714	1704			16	13	24.5				2.8		
750714	1705			21	13	24.0				1.2		
750714	1706			26	13	23.5				0.3		
750714	1707			31	13	23.0				0.1		
750714	1708			36	13	22.5				0.1		
750714	1709			41	13	21.0				0.0		
750728	1710			1	13	29.5				8.8		7.5
750728	1711			6	13	29.0				8.0		
750728	1712			8	13	28.0				7.1		
750728	1713			11	13	28.0				4.5		
750728	1714			13	13	27.5				3.6		
750728	1715			16	13	27.5				3.5		
750728	1716			18	13	27.0				2.4		
750728	1717			21	13	27.0				1.0		7.0
750728	1718			26	13	26.5				0.1		
750728	1719			31	13	26.0				0.1K		
750728	1720			36	13	26.0				0.1K		
750728	1721			41	13	25.0				0.1K		
750811	1825			1	13	28.0				8.2		7.3
750811	1826			6	13	28.0				8.3		
750811	1827			11	13	27.5				5.4		
750811	1828			14	13	27.0				4.0		
750811	1829			16	13	27.0				3.2		
750811	1830			18	13	27.0				3.1		
750811	1831			21	13	27.0				3.1		
750811	1832			22	13	27.0				3.0		
750811	1833			26	13	27.0				2.7		
750811	1834			28	13	27.0				2.6		
750811	1835			31	13	26.5				0.2		
750811	1836			36	13	26.0				0.1K		6.7

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-06 CHATTAHOOCHEE R GA HY109 W LAGRA CHATTAHOOCHEE GDPH 16

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750811	1837			41	13	25.5				0.1K		
750811	1838			45	13	25.0				0.2		
750828	1630			1	13	29.0				8.9		6.9
750828	1631			6	13	29.0				8.8		
750828	1632			11	13	29.0				8.4		
750828	1633			13	13	29.0				8.1		
750828	1634			16	13	29.0				1.6		
750828	1635			18	13	27.0				0.8		6.1
750828	1636			21	13	26.5				0.5		
750828	1637			26	13	26.0				0.1		
750828	1638			31	13	25.5				0.1		
750828	1639			36	13	25.0				0.1K		
750828	1640			41	13	25.0				0.1K		
750916	1625			1	2000	25.3	4K	20	71	6.3		6.6
750916	1626			6	2000	25.0				5.8		
750916	1627			11	2000	25.0				5.4		
750916	1628			16	2000	25.0				5.0		
750916	1629			21	2000	25.0				4.9		
750916	1630			26	2000	25.0	4K	20	77	5.4		6.7
750916	1631			31	2000	24.5	8	20	66	1.6		6.3
750916	1632			36	2000	24.0	8	30	66	0.1K		6.3
750916	1633			41	2000	23.5				0.0		
750916	1634			45	2000	23.3				0.0		
750916	1635			50	2000		28	100	77			6.3
750919	1535			1	2000	28.5	4K	20	77	6.1		6.3
750919	1536			6	2000	25.3				3.8		
750919	1537			11	2000	25.0				3.6		
750919	1538			16	2000	25.0				3.7		
750919	1539			21	2000	25.0				3.9		
750919	1540			26	2000	25.0				3.9		
750919	1541			31	2000	25.0				4.0		
750919	1542			36	2000	25.0				4.0		
750919	1543			39	2000	24.8				3.9		
750919	1544			41	2000	24.8				3.1		
750919	1545			43	2000	24.6				2.6		
750919	1546			45	2000	24.5				2.1		
750919	1547			50	2000	24.3	27	30	82	1.7		6.0
750919	1548			55	2000	24.1				1.0		
750920	1145			1	2000	26.2	4	20	77	9.4	4.3	6.5
750920	1146			6	2000	25.2				6.8		
750920	1147			9	2000	25.0				4.6		
750920	1148			11	2000	24.8				3.2		
750920	1149			16	2000	24.8				3.4		
750920	1150			21	2000	24.6				3.5		
750920	1151			26	2000	24.6				3.6		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-06 CHATTAHOOCHEE R GA HY109 W LAGRA CHATTAHOOCHEE GDPH 16

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750920	1152			31	2000	24.6				3.6		
750920	1153			36	2000	24.5				3.6		
750920	1154			41	2000	24.1				3.7		
750920	1155			45	2000	23.8				3.6		
750920	1156			50	2000	23.9	18	20	77	3.7	1.0	
750920	1157			55	2000	23.8				3.6		
750924	1155			1	13	22.3				5.1		
750924	1156			3	13	22.5				5.0		
750924	1157			6	13	22.7				5.0		
750924	1158			11	13	22.7				5.0		
750924	1159			16	13	22.7				5.0		
750924	1200			21	13	22.7				5.2		
750924	1201			26	13	22.7				5.2		
750924	1202			31	13	22.7				5.2		
750924	1203			36	13	22.5				5.2		
750924	1204			41	13	22.5				5.2		
750924	1205			46	13	22.5				5.2		
751007	1610			1	13	19.5				5.6		6.4
751007	1611			3	13	19.2				5.6		
751007	1612			6	13	19.0				5.7		
751007	1613			11	13	19.0				5.8		
751007	1614			16	13	18.8				5.9		
751007	1615			21	13	18.5				6.0		
751007	1616			26	13	18.2				6.1		
751007	1617			31	13	18.2				6.1		
751007	1618			36	13	18.2				6.2		
751007	1619			41	13	18.0				6.2		
751007	1620			45	13	18.0				6.2		

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750414	1505			1	2000	16	0.06	0.31	0.06	1.7	8	575
750414	1510			38	2000	15	0.06	0.32	0.08	1.7	8	550
750415	1505			1	2000	14	0.02	0.20	0.05	3.0	10	1300
750415	1510			34	2000	17	0.02	0.22	0.06	2.6	9	1300
750416	1330			1	2000	13	0.07	0.35	0.09	3.6	11	1350
750416	1336			35	2000	14	0.07	0.33	0.10	3.6	11	1300
750417	1130			1	2000	20	0.06	0.30	0.08	1.2	8	900
750417	1139			31	2000	16	0.06	0.29	0.09	1.2	10	1525
750418	1015			1	2000	11	0.05	0.31	0.08	1.8		650
750519	1915			1	13		0.02K	0.28	0.10			
750609	1945			1	13		0.02K	0.06	0.04			

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-06 CHATTAHOOCHEE R GA HY109 W LAGRA CHATTAHOOCHEE GDPH 16

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750714	1700			1	13		0.02K	0.02K	0.04			
750714	1708			36	13		0.69	0.12	0.08			
750811	1825			1	13		0.02K	0.40	0.06			
750916	1625			1	2000	17	0.10	0.29	0.05	2.0	17	275
750916	1630			26	2000	17	0.13	0.40	0.05	1.4	16	236
750916	1631			31	2000	21	0.22	0.51	0.07	1.4	15	390
750916	1632			36	2000	22	0.29	0.48	0.07	2.0	14	
750916	1635			50	2000	32	0.65	0.29	0.10	2.6	16	3710
750919	1535			1	2000	19	0.11	0.27	0.04	4.5	16	205
750919	1547			50	2000	20	0.52	0.49	0.22	5.0	16	3625
750920	1145			1	2000	21	0.03	0.48	0.08	3.7	16	163
750920	1156			50	2000	15	0.21	0.64	0.10	2.0	16	1015
751007	1610			1	13		0.38	0.67	0.12			

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750414	1505			1	2000	85	460	66	64	2	0.18	
750414	1510			38	2000	70		48	46	2	0.16	
750415	1505			1	2000	185	680	60	36	24	0.21	225
750415	1510			34	2000	160		184	56	28	0.18	175
750416	1330			1	2000	65	420	52	36	16	0.32	130
750416	1336			35	2000	80		86	69	17	0.34	130
750417	1130			1	2000	70	850	78	67	11	0.21	145
750417	1139			31	2000	140		90	68	22	0.16	150
750418	1015			1	2000	75	540	42	26	16	0.34	
750519	1915			1	13		30K				0.60	
750609	1945			1	13		30K				0.30	
750626	1840			1	13		30K					
750714	1700			1	13		30K					
750728	1710			1	13		30K					
750811	1825			1	13		30K					
750828	1630			1	13		30K					
750916	1625			1	2000	117	5K	84	82	2	0.29	58
750916	1630			26	2000	86		72	68	4	0.40	64
750916	1631			31	2000	185		78	76	2	0.40	121
750916	1632			36	2000			86	83	3	0.55	
750916	1635			50	2000	1530		86	77	9	0.86	1630
750919	1535			1	2000	132		72	49	23	0.30	20
750919	1547			50	2000	1160		70	25	45	0.86	1425
750920	1145			1	2000	92		84	79	6	0.35	
750920	1156			50	2000	349		92	61	31	0.47	
751007	1610			1	13		36					

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-06 CHATTAHOOCHEE R GA HY109 W LAGRA CHATTAHOOCHEE GDPH 16

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750414	1505			1	2000				2K			
750414	1505											
750414	1510			38	2000						24	
750415	1505			1	2000				2K			
750415	1505							0.03	2K			
750415	1510			34	2000						12	
750416	1330			1	2000	35		0.03	2K			
750416	1330							0.05	2K			
750416	1336			35	2000	35		0.06			12	
750417	1130			1	2000	45			2K			
750417	1139			31	2000	50			2K			
750418	1015			1	2000	60			2K			
750418	1015								2K			
750519	1915			1	13		30.0	0.05		81.90	24	
750519	1916			6	13					12.80		
750519	1918			11	13					2.38		
750609	1945			1	13		19.0			7.92		
750609	1946			6	13					38.35		
750609	1947			11	13					30.15		
750626	1840			1	13		27.0					
750714	1700			1	13		26.6	0.02K		12.28		
750714	1701			6	13					12.46		
750714	1703			11	13					4.91		
750714	1708			36	13			0.02K				
750728	1710			1	13		31.0					
750811	1825			1	13			0.02K		16.72		
750811	1826			6	13					14.13		
750811	1834			28	13					5.25		
750916	1625			1	2000	30		0.02	4			
750916	1630			26	2000	40		0.02	4			
750916	1631			31	2000	100		0.03	3			
750916	1632			36	2000				2K			
750916	1635			50	2000	1640		0.13	2K			
750919	1535			1	2000	28		0.02	3			1.0K
750919	1547			50	2000	1100		0.02	4			
750920	1145			1	2000	10K		0.03	4			
750920	1156			50	2000	313		0.04	4			
751007	1610			1	13			0.05		3.85		
751007	1612			6	13					2.38		
751007	1613			11	13					1.81		

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-07 CHATTAHOOCHEE R AT LAGRA WTR INT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750115	0900			1	13	5.0	108	140	48	9.5	0.6
750225	0830			1	13	11.0	42	60	51	7.0	1.0
750408	1425			1	13	16.0	17	30	42	8.2	1.0
750414	1230			1	2000	13.5	20	40	41	6.0	0.8
750414	1235			34	2000	13.5	43	40	41	5.9	0.6
750415	1340			1	2000	13.0	43	50	35	8.6	0.6
750415	1345			34	2000	13.0	44	45	35	8.5	0.7
750416	1125			1	2000	14.0	49	50	46	7.7	1.1
750416	1130			35	2000	13.8				7.3	
750417	1430			1	2000	15.0	26	35	43	7.3	1.1
750417	1431			6	2000	15.0				7.3	
750417	1432			11	2000	15.0				7.3	
750417	1433			16	2000	15.0				7.3	
750417	1434			21	2000	14.8				7.3	
750417	1435			26	2000	14.8				7.3	
750417	1436			31	2000	14.8				7.3	
750417	1437			32	2000	14.5				7.3	
750418	1300			1	2000	15.3	20	30	41	7.8	1.2
750418	1301			6	2000	15.0				7.7	
750418	1302			11	2000	15.0				7.6	
750418	1303			21	2000	15.0				7.6	
750418	1304			25	2000	15.0				7.6	
750513	1430			1	13	25.5	22	10	47	7.0	3.0
750520	0925			1	13	24.0				7.3	
750520	0926			4	13	22.0				5.8	
750520	0927			6	13	21.5				4.7	
750520	0928			8	13	20.5				3.9	
750520	0929			11	13	20.5				3.7	
750520	0930			16	13	20.5				3.7	
750520	0931			21	13	20.0				3.6	
750520	0932			26	13	20.0				3.8	
750520	0933			31	13	20.0				3.7	
750520	0934			36	13	20.0				3.6	
750520	0935			41	13	20.0				3.6	
750610	1255			1	13	27.5				11.6	
750610	1256			6	13	26.5				10.4	
750610	1257			7	13	26.0				9.7	
750610	1258			9	13	25.0				2.3	
750610	1259			11	13	24.5				0.9	
750610	1300			16	13	23.5				0.8	
750610	1301			18	13	23.5				0.7	
750610	1302			21	13	23.0				0.5	
750610	1303			26	13	23.0				0.5	
750610	1304			31	13	22.5				0.3	
750610	1305			36	13	22.5				0.2	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-07 CHATTAHOOCHEE R AT LAGRA WTR INT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750610	1306			41	13	22.5					
750626	1535			1	13	27.5				0.2	
750626	1536			6	13	27.0				11.8	
750626	1537			11	13	26.5				7.5	
750626	1538			14	13	26.0				5.8	
750626	1539			16	13	26.0				2.0	
750626	1540			18	13	26.0				1.4	
750626	1541			21	13	24.5				0.2	
750626	1542			26	13	24.0				0.2	
750626	1543			31	13	23.5				0.1	
750626	1544			36	13	23.5				0.1	
750626	1545			41	13	23.0				0.1	
750708	1445			1	13	28.0	20	15	66	7.7	2.0
750714	1840			1	13	29.0				12.5	
750714	1841			4	13	29.0				11.5	
750714	1842			6	13	28.0				9.0	
750714	1843			8	13					7.1	
750714	1844			11	13	27.0				2.5	
750714	1845			16	13	26.5				1.6	
750714	1846			21	13	26.0				0.9	
750714	1847			26	13	26.0				0.6	
750714	1848			31	13	25.5				0.2	
750714	1849			36	13	25.0				0.1	
750714	1850			41	13	24.5				0.1	
750728	1610			1	13	29.5				11.2	
750728	1611			6	13	28.0				6.0	
750728	1612			8	13	27.5				4.4	
750728	1613			11	13	27.5				2.6	
750728	1614			13	13	27.0				2.4	
750728	1615			16	13	27.0				2.3	
750728	1616			18	13	26.5				1.9	
750728	1617			21	13	27.0				0.9	
750728	1618			26	13	26.5				0.2	
750812	1030			1	13	28.0				9.1	
750812	1031			4	13	27.5				7.5	
750812	1032			6	13	27.0				6.1	
750812	1033			8	13	27.0				5.0	
750812	1034			10	13	27.0				4.6	
750812	1035			11	13	27.0				4.0	
750812	1036			14	13	26.5				3.9	
750812	1037			16	13	26.0				2.2	
750812	1038			18	13	26.0				2.3	
750812	1039			21	13	26.0				2.9	
750812	1040			26	13	25.0				2.3	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-07 CHATTAHOOCHEE R AT LAGRA WTR INT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750812	1042			36	13	24.5				2.9	
750812	1043			41	13	24.0				3.0	
750812	1044			46	13	24.0				3.0	
750819	1215			1	13	31.0	4	5	68	7.8	2.7
750828	1430			1	13	29.0				9.1	
750828	1431			6	13	28.5				7.3	
750828	1432			11	13	28.5				6.1	
750828	1433			13	13	28.0				3.2	
750828	1434			16	13	27.5				2.3	
750828	1435			21	13	26.5				1.1	
750828	1436			26	13	26.0				0.2	
750828	1437			31	13	25.0				0.1	
750828	1438			36	13	25.0				0.1	
750828	1439			41	13	25.0				0.1	
750908	0915			1	13	27.5				7.9	
750908	0920			6	13	28.0				7.6	
750908	0921			11	13	28.0				5.2	
750908	0922			16	13	27.5				3.3	
750908	0923			18	13	27.0				2.4	
750908	0924			21	13	27.0				1.1	
750908	0925			23	13	26.0				0.3	
750908	0926			26	13	25.5				0.1	
750908	0927			31	13	25.0				0.2	
750908	0928			36	13	25.0				0.2	
750908	0929			41	13	25.0				0.6	
750908	0930			46	13	25.0				1.2	
750915	1735			1	2000	25.5	4K	25	75	7.0	1.1
750915	1736			6	2000	25.5				5.8	
750915	1737			11	2000	25.5				5.5	
750915	1738			16	2000	25.5				5.3	
750915	1739			21	2000	25.2	6	30	65	4.8	0.8
750915	1740			26	2000	24.8	7	25	70	1.8	0.3
750915	1741			31	2000	24.0	8	40	65	1.1	0.3
750915	1742			36	2000	23.5				0.9	
750915	1743			41	2000	23.5				0.7	
750915	1744			46	2000	23.0				0.7	
750915	1745			52	2000		10	40	70		0.5
750916	1400			1	2000	25.0	4K	20	71	6.0	
750916	1401			6	2000	25.3				4.9	
750916	1402			11	2000	25.3				4.8	
750916	1403			16	2000	25.0				4.8	
750916	1404			21	2000	25.0				4.7	
750916	1405			26	2000	25.0	5	20	71	4.6	
750916	1406			28	2000	24.5	6	20	60	0.7	
750916	1407			31	2000	24.0	12	30	66	0.2	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-07 CHATTAHOOCHEE R AT LAGRA WTR INT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750916	1408			36	2000	24.0					
750916	1409			41	2000	23.5				0.3	
750916	1410			46	2000	23.5	6	30	60	0.3	
750917	1130			1	13	23.5	5	5	67	0.1K	
750917	1440			1	2000	24.8	4K	20	66	4.6	1.1
750917	1441			6	2000	25.0				7.2	
750917	1442			11	2000	25.0				7.1	
750917	1443			16	2000	25.0				7.1	
750917	1444			21	2000	25.0				6.8	
750917	1445			26	2000	25.0	4K	20	66	6.6	
750917	1446			28	2000	25.0				6.3	
750917	1447			31	2000	24.8	8	30	66	4.9	
750917	1448			33	2000	24.5				3.4	
750917	1449			36	2000	24.2	10	30	61	2.8	
750917	1450			41	2000	23.8				1.9	
750917	1451			45	2000	23.8				1.8	
750917	1452			50	2000		10	30	66	1.6	
750918	1310			1	2000	25.2	4	20	71	4.7	
750918	1311			6	2000	25.2				4.3	
750918	1312			11	2000	25.2				3.9	
750918	1313			16	2000	25.0				3.9	
750918	1314			21	2000	25.0				4.0	
750918	1315			26	2000	25.0				4.0	
750918	1316			31	2000	25.0				3.4	
750918	1317			36	2000	24.8	4K	20	71	2.4	
750918	1318			41	2000	24.5	4	20	71	1.0	
750918	1319			46	2000	24.5	4	30	71	0.6	
750918	1320			50	2000		6	30	71		
750919	1215			1	2000	26.0	4	30	77	6.4	
750919	1216			3	2000	25.0				6.0	
750919	1217			6	2000	24.6				4.0	
750919	1218			11	2000	24.6				3.6	
750919	1219			16	2000	24.6				3.5	
750919	1220			21	2000	24.5				3.5	
750919	1221			26	2000	24.3				3.6	
750919	1222			31	2000	24.2				3.7	
750919	1223			36	2000	24.0				3.8	
750919	1224			41	2000	24.0				3.8	
750919	1225			45	2000	24.0				3.8	
750919	1226			47	2000		20	20	77		
750919	1227			50	2000	23.5				3.4	
750919	1228			52	2000	23.5				3.4	
750920	1245			1	2000	26.0	4K	20	77	8.9	3.8
920	1246			3	2000	25.0				7.0	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-07 CHATTAHOOCHEE R AT LAGRA WTR INT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750920	1248			9	2000	24.4				3.6	
750920	1249			11	2000	24.0				3.9	
750920	1250			16	2000	23.8				4.2	
750920	1251			21	2000	23.8				4.3	
750920	1252			26	2000	23.8				4.3	
750920	1253			31	2000	23.6				4.3	
750920	1254			36	2000	23.5				4.3	
750920	1255			41	2000	23.5				4.4	
750920	1256			45	2000	23.5				4.3	
750920	1257			50	2000		30	20	72		0.8
750924	1220			1	13	21.7				5.3	
750924	1221			3	13	22.0				5.2	
750924	1222			6	13	22.0				5.2	
750924	1223			11	13	22.2				5.1	
750924	1224			16	13	22.2				5.1	
750924	1225			21	13	22.2				5.1	
750924	1226			22	13	22.2				5.1	
750924	1227			31	13	22.2				5.1	
750924	1228			36	13	22.2				5.0	
750924	1229			41	13	22.2				5.0	
750924	1230			46	13	22.2				5.0	
751007	1725			1	13	18.5				6.5	
751007	1726			3	13	18.0				6.5	
751007	1727			6	13	18.0				6.3	
751007	1728			11	13	17.5				6.4	
751007	1729			16	13	17.2				6.4	
751007	1730			21	13	17.2				6.4	
751007	1731			26	13	17.2				6.4	
751007	1732			31	13	17.2				6.4	
751007	1733			36	13	17.2				6.4	
751007	1734			41	13	17.2				6.4	
751112	1605			1	13	19.0				7.1	
751112	1606			3	13	19.0				7.2	
751112	1607			6	13	19.0				7.0	
751112	1608			11	13	18.3				6.8	
751112	1609			16	13	19.0				6.1	
751112	1620			21	13	18.0				4.7	
751112	1621			26	13	18.0				4.3	
751112	1622			31	13	18.0				4.0	
751112	1623			36	13	18.0				3.8	
751112	1624			41	13	17.8				3.3	
751112	1625			46	13	17.8				3.1	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-07 CHATTAHOOCHEE R AT LAGRA WTR INT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00400 PH SU	00403 LAB PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P
750115	0900			1	13	6.1	6.8	12	0.04	0.35	0.20
750225	0830			1	13	6.2	6.8	10	0.07	0.40	0.11
750408	1425			1	13	7.1	6.8	10	0.04	0.29	0.08
750414	1230			1	2000	6.7		15	0.06	0.32	0.09
750414	1235			34	2000	6.7		17	0.05	0.32	0.08
750415	1340			1	2000	6.4		20	0.04	0.26	0.08
750415	1345			34	2000	6.4		12	0.06	0.22	0.06
750416	1125			1	2000	6.4		13	0.07	0.36	0.10
750417	1430			1	2000	6.4		20	0.05	0.32	0.09
750418	1300			1	2000	6.6		13	0.05	0.32	0.08
750513	1430			1	13	7.5	7.0	10	0.02K	0.24	0.11
750520	0925			1	13	6.7			0.06	0.38	0.09
750520	0926			4	13	6.7					
750520	0927			6	13	6.7					
750520	0933			31	13	6.8					
750610	1255			1	13				0.11	0.32	0.10
750626	1535			1	13	7.6			0.02K	0.02K	0.04
750626	1544			36	13	6.7					
750708	1445			1	13	7.4	7.2	18			
750714	1840			1	13				0.07	0.17	0.07
750714	1849			36	13				0.32	0.02K	0.05
750728	1610			1	13	8.2			0.44	0.26	0.07
750728	1617			21	13	7.2					
750812	1030			1	13	7.4					
750812	1042			36	13	6.6			0.02K	0.39	0.07
750819	1215			1	13	9.0	8.9	20	0.16	0.59	0.09
750828	1430			1	13	7.3			0.02K	0.02K	0.03
750828	1437			31	13	6.1					
750908	0915			1	13	7.1					
750908	0926			26	13	6.3			0.02K	0.29	0.05
750915	1735			1	2000	6.8			0.26	0.45	0.07
750915	1739			21	2000	6.4		17	0.10	0.46	0.06
750915	1740			26	2000	6.1		18	0.16	0.48	0.06
750915	1741			31	2000	6.1		19	0.22	0.56	0.06
750915	1745			52	2000	6.2		15	0.25	0.57	0.07
750916	1400			1	2000	6.5		19	0.41	0.47	0.09
750916	1405			26	2000	6.4		18	0.14	0.54	0.07
750916	1406			28	2000	6.2		16	0.20	0.46	0.07
750916	1407			31	2000	6.2		17	0.25	0.52	0.07
750916	1410			46	2000	6.2		21	0.28	0.47	0.07
750917	1130			1	13		6.7	18	0.39	0.41	0.08
750917	1440			1	2000	6.4		17	0.22	0.53	0.05
750917	1445			26	2000	6.4		17	0.14	0.62	0.06
750917	1447			31	2000	6.3		15	0.14	0.60	0.06
								18	0.28	0.57	0.07

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-07 CHATTAHOOCHEE R AT LAGRA WTR INT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00400 PH SU	00403 LAB PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P
750917	1452			50	2000	6.3		22	0.60	0.41	0.09
750918	1310			1	2000	6.3		15	0.17	0.62	0.07
750918	1317			36	2000	6.2		18	0.27	0.60	0.07
750918	1318			41	2000	6.2		18	0.40	0.52	0.07
750918	1319			46	2000	6.1		18	0.62	0.40	0.09
750918	1320			50	2000	6.1		28	0.69	0.34	0.03
750919	1215			1	2000	6.5		15	0.11	0.62	0.06
750919	1226			47	2000			18	0.17	0.66	0.12
750920	1245			1	2000	7.0		20	0.02	0.59	0.07
750920	1257			50	2000	6.3		15	0.17	0.71	0.11
751007	1725			1	13				0.30	0.60	0.14
751007	1731			26	13				0.10	0.65	0.12
751112	1605			1	13	6.3					

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L
750115	0900			1	13	5.0	14	2800	60	4300	
750225	0830			1	13	5.0	13	1600	80	23000	
750408	1425			1	13	2.0	11	700	50	4300	
750414	1230			1	2000	1.7	8	650	70	570	38
750414	1235			34	2000	1.7	10	650	70		40
750415	1340			1	2000	2.6	8	700	95	1650	60
750415	1345			34	2000	2.6	8	800	100		56
750416	1125			1	2000	2.7	10	1550	75	3900	76
750417	1430			1	2000	1.2				1550	48
750418	1300			1	2000	1.5		550	75	760	64
750513	1430			1	13	4.0	11	890	50K	150	
750520	0925			1	13					36	
750610	1255			1	13					30K	
750626	1535			1	13					30K	
750708	1445			1	13	5.0	18	550	50K	36	
750714	1840			1	13					150	
750728	1610			1	13					30K	
750812	1030			1	13					30K	
750819	1215			1	13	4.0	17	200	50K	43000	
750828	1430			1	13					91	
750908	0915			1	13					36	
750915	1735			1	2000	2.9		949	56	5K	
750915	1739			21	2000	2.6		299	83		
750915	1740			26	2000	2.0		422	144		
750915	1741			31	2000	1.7		523	247		
750915	1745			52	2000	2.0		778	706		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-07 CHATTAHOOCHEE R AT LAGRA WTR INT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L
750916	1400			1	2000	2.0	16	247	68	2K	68
750916	1405			26	2000	2.0	16	475	140		70
750916	1406			28	2000	1.4	14	450	905		44
750916	1407			31	2000	1.7	14	609	394		56
750916	1410			46	2000	1.4	14	776	834		68
750917	1130			1	13	3.0	16	330	70	30K	
750917	1440			1	2000	2.0	16	213	75	2K	30
750917	1445			26	2000	1.4	16	221	65		80
750917	1447			31	2000	1.4	15	468	304		32
750917	1449			36	2000	2.0	14	642	445		40
750917	1452			50	2000	1.7	16	1028	1500		44
750918	1310			1	2000	2.0	16	280	95	2K	92
750918	1317			36	2000	1.7	16	423	1112		88
750918	1318			41	2000	1.7	16	701	974		96
750918	1319			46	2000	2.0	15	946	1650		94
750918	1320			50	2000	1.7	15	1168	3644		98
750919	1215			1	2000	2.9	16	215	88	2	58
750919	1226			47	2000	3.0	15	727	246		72
750920	1245			1	2000	3.0	16	155	75		62
750920	1257			50	2000	2.5	15	618	232		92
751007	1725			1	13					91	

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	31501 TOT COLI MFIMENDO /100ML
750115	0900			1	13		41				
750225	0830			1	13		16				
750408	1425			1	13		10				
750414	1230			1	2000	37	1	0.21			
750414	1235			34	2000	35	5	0.18			
750415	1340			1	2000	28	32	0.21	240	60	
750415	1345			34	2000	25	3.	0.16	145	55	
750416	1125			1	2000	52	24	0.30	160	30	
750417	1430			1	2000	35	13	0.21			
750418	1300			1	2000	51	13	0.21	145	55	
750513	1430			1	13		18				
750520	0925			1	13			0.20			
750520	0933			31	13			0.30			
750610	1255			1	13			0.50			
750708	1445			1	13		36				9300
750819	1215			1	13		6				43000
0915	1735			1	2000			0.28			
15	1730			21	2000			0.50			

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-07 CHATTAHOOCHEE R AT LAGRA WTR INT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	31501 TOT COLI MFIMENDO /100ML
750915	1740			26	2000			0.40			
750915	1741			31	2000			0.40			
750915	1745			52	2000			0.56			
750916	1400			1	2000	64	4	0.38	30	10K	
750916	1405			26	2000	59	11	0.38	45	41	
750916	1406			28	2000	40	4	0.40	53	122	
750916	1407			31	2000	51	5	0.44	50	290	
750916	1410			46	2000	60	8	0.68	126	781	
750917	1130			1	13		1K				230
750917	1440			1	2000	16	14	0.46	50	20	
750917	1445			26	2000	65	15	0.42	30	40	
750917	1447			31	2000	4	28	0.37			
750917	1449			36	2000	11	19	0.42	45	403	
750917	1452			50	2000	21	23	0.73	311	1595	
750918	1310			1	2000	87	5	0.33	65	10K	
750918	1317			36	2000	86	2	0.46	58	425	
750918	1318			41	2000	89	7	0.61			
750918	1319			46	2000	90	4	0.80	121	1600	
750918	1320			50	2000	88	10	1.07	378	2100	
750919	1215			1	2000	37	21	0.35	27	38	
750919	1226			47	2000	47	25	0.35	54	182	
750920	1245			1	2000	41	21	0.35			
750920	1257			50	2000	47	45	0.22		190	

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750414	1230			1	2000			2K			
750414	1230									24	
750414	1235			34	2000			2K			
750415	1340			1	2000		0.04	2K			
750415	1340									12	
750415	1345			34	2000		0.03	2K			
750416	1125			1	2000			2K			
750416	1125									6	
750417	1430			1	2000			2K			
750417	1430									24	
750418	1300			1	2000			2K			
750418	1300									24	
750520	0925			1	13	23.5	0.05		4.44		
750520	0926			4	13				7.20		
750520	0927			6	13				3.10		
750520	0933			31	13		0.05				

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-07 CHATTAHOOCHEE R AT LAGRA WTR INT CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750610	1255			1	13	30.0	0.02K				
750610	1259			11	13				45.80		
750610	1306			41	13		0.04		13.18		
750626	1535			1	13	27.0					
750714	1840			1	13	23.5	0.02		2.99		
750714	1842			6	13				18.79		
750714	1849			36	13		0.02K				
750812	1030			1	13		0.02K		4.16		
750812	1032			6	13				6.47		
750812	1035			11	13		0.04K		16.59		
750812	1042			36	13		0.02K				
750908	0915			1	13				15.30		
750908	0921			11	13				6.47		
750908	0923			18	13				12.63		
750908	0926			26	13						
750916	1400			1	2000		0.03	2K			
750916	1405			26	2000		0.03	2K			
750916	1406			28	2000		0.03	2K			
750916	1407			31	2000		0.03	2K			
750916	1410			46	2000		0.04	2K			
750917	1440			1	2000		0.03	2K			
750917	1445			26	2000		0.03	4			
750917	1447			31	2000		0.03	37			
750917	1449			36	2000			4			
750917	1452			50	2000		0.03	4			
750918	1310			1	2000		0.03	2K			
750918	1317			36	2000		0.04	2K			1.0K
750918	1318			41	2000		0.03	2K			
750918	1319			46	2000			2			
750918	1320			50	2000		0.02	2			
750919	1215			1	2000		0.09	2			
750919	1226			47	2000		0.03	6			1.0K
750920	1245			1	2000		0.04	5			
750920	1257			50	2000			3			
750924	1220			1	13	17.0	0.04	4			
751007	1725			1	13						
751007	1727			6	13		0.06		7.74		
751007	1728			11	13				2.41		
751007	1731			26	13				2.05		
751112	1605			1	13		0.07				
751112	1607			6	13				6.11		
751112	1608			11	13				6.59		
									3.09		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08 YELLOW JACKET CR S2098 W OF LAGR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750414	1415			1	2000	16.5	65	60	41	5.6	0.7	6.7
750414	1420			25	2000	15.0	27	40	41	1.2	0.9	6.2
750415	1430			1	2000	15.0	35	50	43	6.9	0.5	6.4
750415	1431			5	2000	15.0				6.9		
750415	1432			10	2000	15.0				6.9		
750415	1433			20	2000	15.0				6.9		
750415	1434			27	2000	14.5	42	60	43	6.8	0.6	6.4
750416	1215			1	2000	14.0	81	60	29	8.1	0.7	6.4
750416	1221			6	2000	13.5				8.0		
750416	1222			11	2000	13.0				8.0		
750416	1223			16	2000	13.0				8.0		
750416	1224			21	2000	13.0				7.8		
750416	1225			26	2000	13.0	78	50	29	7.6	0.9	6.4
750417	1300			1	2000	16.5	71	50	28	6.9	1.1	6.5
750417	1301			6	2000	15.0				6.9		
750417	1302			11	2000	14.5				6.9		
750417	1303			16	2000	14.5				6.9		
750417	1304			21	2000	14.5				6.5		
750417	1305			26	2000	14.0	63	45	31	6.3	0.7	6.3
750418	1125			1	2000	16.0	73	60	28	8.0	1.2	6.7
750418	1126			6	2000	16.0				7.9		
750418	1127			11	2000	14.8				7.0		
750418	1128			16	2000	14.5				7.0		
750418	1129			21	2000	14.3				7.0		
750418	1130			26	2000	14.3	86	60	27	7.0	1.4	6.3
750520	0835			1	13	24.5				9.9		6.7
750520	0836			6	13	23.5				10.0		6.7
750520	0837			11	13	21.5				10.0		
750520	0838			14	13	20.5				4.3		6.6
750520	0839			16	13	20.5				4.2		
750520	0840			18	13	20.0				4.2		
750520	0841			21	13	19.5				1.7		
750520	0842			26	13	19.0				1.9		
750520	0843			31	13	18.5				2.0		
750520	0844			36	13	18.0				0.1		6.4
750520	0845			41	13	17.5				0.1K		
750610	1140			1	13	28.0				9.1		
750610	1141			6	13	27.5				9.1		
750610	1142			8	13	26.5				8.5		
750610	1143			11	13	26.5				5.4		
750610	1144			12	13	25.0				2.2		
750610	1145			16	13	25.0				0.2		
750610	1146			21	13	23.0				0.2		
750610	1147			26	13	21.5				0.2		
750610	1148			31	13	20.5				0.1		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08 YELLOW JACKET CR S2098 W OF LAGR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750610	1149			36	13	19.5				0.1		
750610	1150			41	13	18.0				0.1		
750626	1445			1	13	28.0				8.5		6.2
750626	1446			6	13	28.0				8.3		
750626	1447			11	13	28.0				8.4		
750626	1448			13	13	27.5				7.8		
750626	1449			14	13	27.5				7.2		
750626	1450			15	13	26.0				1.2		
750626	1451			16	13	26.0				0.6		
750626	1452			21	13	24.5				0.1		
750626	1453			26	13	23.5				0.1		
750626	1454			31	13	21.5				0.1		
750626	1455			36	13	20.5				0.1		6.1
750626	1456			41	13	20.0				0.1		
750714	1800			1	13	28.5				10.0		
750714	1801			6	13	28.0				9.5		
750714	1802			7	13	28.0				9.3		
750714	1803			9	13	27.0				7.2		
750714	1804			11	13	27.0				4.1		
750714	1805			16	13	26.5				2.1		
750714	1806			21	13	26.0				0.9		
750714	1807			26	13	24.5				0.1		
750714	1808			31	13	24.5				0.1		
750714	1809			36	13	22.0				0.1		
750714	1810			41	13	20.5				0.1		
750728	1640			1	13	30.0				8.4		7.7
750728	1641			6	13	29.5				7.8		
750728	1642			11	13	29.0				5.5		
750728	1643			13	13	27.0				2.4		
750728	1644			16	13	27.5				2.3		
750728	1645			18	13	26.5				0.5		
750728	1646			21	13	27.0				0.2		7.1
750728	1647			26	13	26.0				0.1		
750728	1648			31	13	24.5				0.1K		
750812	0955			1	13	28.0				8.6		7.5
750812	0956			6	13	28.0				7.6		
750812	0957			8	13	27.5				7.8		
750812	0958			11	13	27.5				4.9		
750812	0959			13	13	27.0				3.3		
750812	1000			16	13	27.0				2.0		
750812	1001			18	13	27.0				1.8		
750812	1002			21	13	27.0				0.1		
750812	1003			26	13	26.0				0.1K		6.5
750812	1004			31	13	25.0				0.1K		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08 YELLOW JACKET CR S2098 W OF LAGR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750828	1555			1	13	29.0				7.7		7.1
750828	1556			6	13	29.0				7.6		
750828	1557			11	13	29.5				7.6		
750828	1558			13	13	29.0				7.4		
750828	1559			15	13	29.0				5.0		
750828	1600			16	13	29.0				4.4		
750828	1601			18	13	27.0				1.5		
750828	1602			21	13	26.0				0.1		6.1
750828	1603			26	13	25.0				0.1K		
750828	1604			31	13	24.0				0.1K		
750909	0955			1	13	28.0				7.9		7.2
750909	0956			6	13	28.0				6.9		
750909	0957			11	13	28.0				5.5		
750909	0958			14	13	28.0				4.1		
750909	0959			16	13	27.8				3.1		
750909	1000			18	13	27.2				0.6		
750909	1001			21	13	26.8				0.0		
750909	1002			26	13	26.0				0.0		6.5
750909	1003			31	13	25.0				0.0		
750909	1004			36	13	24.0				0.0		
750915	1435			1	2000	25.0	5	35	62	4.0	1.7	6.5
750916	1505			1	2000	25.8	4K	20	71	3.6		6.4
750916	1506			6	2000	25.5				3.1		
750916	1507			11	2000	25.5				2.7		
750916	1508			16	2000	25.5				2.6		
750916	1509			21	2000	25.5				2.5		
750916	1510			26	2000	25.5	4K	20	71	2.1		6.4
750916	1511			31	2000	24.5	23	150	110	0.0		6.4
750916	1512			36	2000	23.5	32	150	121	0.0		6.5
750916	1513			41	2000	23.5				0.0		
750916	1514			45	2000	22.5	34	150	154	0.0		6.5
750917	1345			1	2000	25.0	4K	30	63	2.2		6.4
750917	1346			6	2000	25.2				2.2		
750917	1347			11	2000	25.2				2.1		
750917	1348			16	2000	25.2				2.0		
750917	1349			21	2000	25.2				2.0		
750917	1350			26	2000	25.2	4K	30	66	2.0		6.4
750917	1351			29	2000	25.0				1.8		
750917	1352			30	2000	25.0				1.8		
750917	1353			31	2000	24.5	26	140	81	0.0		6.3
750917	1354			36	2000	23.5	28	200	102	0.0		6.3
750917	1355			41	2000	23.2				0.0		
750917	1356			42	2000	23.2	28	280	122	0.0		6.3
750918	1400			1	2000	25.8	4K	30	66	3.4		6.4
750918	1401			6	2000	25.2				1.5		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08 YELLOW JACKET CR S2098 W OF LAGR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750918	1402			11	2000	25.2				1.3		
750918	1403			16	2000	25.0				1.6		
750918	1404			21	2000	25.0				1.7		
750918	1405			26	2000	24.8	4K	50	56	1.9		6.3
750918	1406			28	2000	24.8				1.6		
750918	1407			29	2000	24.6				0.8		
750918	1408			30	2000	24.5				0.9		
750918	1409			31	2000	24.2	16	140	102	0.2		6.3
750918	1410			33	2000	23.8				0.1K		
750918	1411			36	2000	23.5	23	280	122	0.0		6.3
750918	1412			41	2000	23.0				0.0		
750918	1413			43	2000	22.5	30	280	158	0.0		6.2
750919	1115			1	2000	25.2	4K	30	77	2.3		6.1
750919	1116			6	2000	25.0				1.6		
750919	1117			11	2000	25.0				1.6		
750919	1118			16	2000	25.0				1.6		
750919	1119			21	2000	25.0				1.5		
750919	1120			26	2000	25.0	4K	30	72	1.3		6.1
750919	1121			27	2000	25.0				0.9		
750919	1122			29	2000	24.8	24	30	66	0.4		6.0
750919	1123			30	2000	24.8				0.0		
750919	1124			31	2000	24.5	8	140	88	0.0		
750919	1125			36	2000	23.5				0.0		6.0
750919	1126			41	2000	23.0	20	280	110	0.0		6.0
750920	1215			1	2000	26.3	4K	20	72	6.0	1.8	6.3
750920	1216			3	2000	25.6				3.6		
750920	1217			6	2000	25.5				3.3		
750920	1218			11	2000	25.0				2.2		
750920	1219			16	2000	25.0				2.5		
750920	1220			21	2000	25.0				2.5		
750920	1220			26	2000	24.8	4K	20	77	1.9	0.6	
750920	1222			31	2000	24.0				1.4		
750920	1223			36	2000	23.3				1.6		
750920	1223			39	2000		20	140	110		11.8L	6.3
750920	1225			41	2000	22.8				1.5		
750920	1226			43	2000	22.8				1.2		
750920	1227			46	2000	22.2				0.1		
750924	1240			1	13	22.8				1.4		
750924	1241			3	13	23.0				1.3		
750924	1242			6	13	23.0				1.3		
750924	1243			11	13	23.2				1.3		
750924	1244			16	13	23.2				1.2		
750924	1245			21	13	23.2				1.4		
750924	1246			26	13	23.2				1.8		
750924	1247			31	13	23.3				2.4		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08 YELLOW JACKET CR S2098 W OF LAGR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750924	1248			35	13	23.0				2.6		
750925	1230			1	13	22.5				1.4		
750925	1231			3	13	22.5				1.5		
750925	1232			6	13	22.5				0.9		
750925	1233			11	13	22.8				0.9		
750925	1234			16	13	22.8				1.2		
750925	1235			21	13	22.8				1.4		
750925	1236			26	13	22.8				1.4		
750925	1237			31	13	22.5				1.5		
750925	1238			36	13	22.5				1.4		
750925	1239			41	13	22.5				0.1		
750925	1240			46	13	22.0				0.1K		
751007	1635			1	13	21.5				6.1		6.3
751007	1636			3	13	21.5				5.9		
751007	1637			6	13	20.8				4.7		
751007	1638			11	13	20.2				3.6		
751007	1639			16	13	20.0				3.9		
751007	1640			21	13	20.0				4.1		
751007	1641			26	13	19.8				4.7		
751007	1642			31	13	19.5				4.5		
751007	1643			36	13	19.5				3.9		6.3
751112	1540			1	13	19.5				8.5		6.1
751112	1541			3	13	20.0				8.5		
751112	1542			6	13	20.0				8.3		
751112	1543			7	13	20.0				8.3		
751112	1544			8	13	19.5				4.7		
751112	1545			9	13	19.8				3.7		
751112	1546			11	13	18.0				0.0		
751112	1547			16	13	18.0				0.0		6.2
751112	1548			21	13	18.0				0.2		
751112	1549			26	13	18.0				0.4		
751112	1550			31	13	17.8				0.6		
751112	1551			36	13	17.5				0.6		

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750414	1415			1	2000	20	0.02	0.14	0.03	2.6	11	1600
750414	1420			25	2000	20	0.10	0.07	0.05	5.0	13	3100
750415	1430			1	2000	20	0.02	0.10	0.03	2.6	11	950
750415	1434			27	2000	19	0.02	0.10	0.03	1.7	13	1850
750416	1215			1	2000	11	0.02	0.10	0.05	4.3	11	2950
750416	1225			26	2000	11	0.02	0.09	0.03	4.3	11	2800

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08 YELLOW JACKET CR S2098 W OF LAGR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750417	1300			1	2000	12	0.02	0.10	0.04	2.7	5	2800
750417	1305			26	2000	19	0.03	0.10	0.04	3.4		2550
750418	1125			1	2000	11	0.02	0.10	0.03	4.4		2600
750418	1130			26	2000	10	0.09	0.11	0.07	4.5		2850
750520	0835			1	13		0.02K	0.02K	0.03			
750520	0844			36	13		0.68	0.02K	0.21			
750610	1140			1	13		0.02K	0.02K	0.04			
750714	1800			1	13		0.02K	0.02K	0.02			
750714	1809			36	13		0.81	0.02K	0.10			
750812	0955			1	13		0.02K	0.14	0.04			
750812	1003			26	13		0.19	0.02	0.04			
750909	0955			1	13		0.02K	0.07	0.02			
750909	1002			26	13		0.09	0.02	0.02			
750915	1435			1	2000	23	0.04	0.02	0.03	3.3	20	510
750916	1505			1	2000	26	0.03	0.02	0.03	4.2	21	729
750916	1510			26	2000	23	0.06	0.05	0.03	2.6	21	915
750916	1511			31	2000	49	1.02	0.02	0.12	4.3	25	8575
750916	1512			36	2000	67	1.92	0.06	0.19	5.9	36	17560
750916	1514			45	2000	68	2.70	0.03	0.26	6.5	38	23250
750917	1345			1	2000	25	0.05	0.07	0.03	2.6	20	579
750917	1350			26	2000	25	0.03	0.07	0.03	2.6	20	560
750917	1353			31	2000	34	0.60	0.07	0.07	4.3	21	5030
750917	1354			36	2000	56	1.90	0.07	0.17	5.9	29	18000
750917	1356			42	2000	70	0.11	0.07	0.04	4.3	36	1170
750918	1400			1	2000	23	0.08	0.03	0.05	4.3	20	568
750918	1405			26	2000	27	0.11	0.03	0.03	2.6	20	582
750918	1409			31	2000	40	0.76	0.07	0.08	4.2	22	6500
750918	1411			36	2000	70	2.00	0.05	0.19	5.7	37	18540
750918	1413			43	2000	88	2.95	0.01K	0.27	5.5	40	25000
750919	1115			1	2000	24	0.08	0.03	0.02	2.9	20	398
750919	1120			26	2000	22	0.21	0.05	0.03	2.9	20	505
750919	1122			29	2000	28	0.15	0.04	0.03	2.9	19	671
750919	1124			31	2000	27	0.52	0.01	0.04	4.2	21	2540
750919	1126			41	2000	47	0.10	0.05	0.03	3.3	33	445
750920	1215			1	2000	25	0.07	0.03	0.04	3.0	22	218
750920	1220			26	2000	20	0.19	0.39	0.03	3.0	16	263
750920	1223			39	2000	62	2.53	0.01	0.21	6.0	36	22500
751007	1635			1	13		0.37	0.28	0.08			
751007	1643			36	13		0.38	0.80	0.13			

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08 YELLOW JACKET CR S2098 W OF LAGR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750414	1415			1	2000	265	60	46	45	1	0.16	
750414	1420			25	2000	1450		72	64	8	0.21	
750415	1430			1	2000	530	120	44	31	13	0.10	290
750415	1434			27	2000	555		48	29	19	0.16	255
750416	1215			1	2000	200	2700	94	64	30	0.18	230
750416	1225			26	2000	215		94	63	31	0.16	320
750417	1300			1	2000	150	1800	100	71	29	0.10	255
750417	1305			26	2000	215		83	71	12	0.18	205
750418	1125			1	2000	155	690	88	62	26	0.18	270
750418	1130			26	2000	175		104	43	61	0.21	260
750520	0835			1	13		30K				0.30	
750520	0844			36	13						0.90	
750610	1140			1	13		30K				1.30	
750626	1445			1	13		30K					
750714	1800			1	13		30K					
750728	1640			1	13		30K					
750812	0955			1	13		30K					
750828	1555			1	13		36					
750909	0955			1	13		30K					
750915	1435			1	2000	550	5K	72	66	9	0.25	50
750916	1505			1	2000	662	2K	74	68	6	0.25	64
750916	1510			26	2000	715		114	110	4	0.29	462
750916	1511			31	2000	3040		100	90	10	1.23	7950
750916	1512			36	2000	4700		136	110	26	2.10	17650
750916	1514			45	2000	6500		178	134	44	3.15	23150
750917	1345			1	2000	685	2K	64	48	16	0.10	88
750917	1350			26	2000	689		40	14	26	0.25	60
750917	1353			31	2000	3210		42	3	39	0.88	
750917	1354			36	2000	4640		92	27	65	2.52	17150
750917	1356			42	2000	813		118	44	74	0.46	484
750918	1400			1	2000	690	2K	38	31	7	0.29	20K
750918	1405			26	2000	907		52	35	17	0.29	85
750918	1409			31	2000	2760		58	22	36	1.00	5610
750918	1411			36	2000	5000		94	34	60	2.40	17900
750918	1413			43	2000	7850		120	50	70	3.65	24200
750919	1115			1	2000	526	2K	56	49	5	0.24	
750919	1120			26	2000	673		44	37	7	0.39	20
750919	1122			29	2000	823		56	52	4	0.39	
750919	1124			31	2000	2710		78	63	15	0.82	1470
750919	1126			41	2000	592		108	80	28	0.30	24
750920	1215			1	2000	392		80	60	20	0.35	
750920	1220			26	2000	220		108	90	18	0.30	
750920	1223			39	2000	5880		160	75	85	2.95	
751007	1635			1	13		30					

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08 YELLOW JACKET CR S2098 W OF LAGR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750414	1415			1	2000				2K			
750414	1415			25	2000				2K		12	
750415	1430			1	2000	480		0.02	2K			
750415	1434			27	2000	505		0.03	2K			
750416	1215			1	2000	150		0.01	2K			
750416	1215			26	2000	160		0.01	2K		6	
750417	1300			1	2000	120			2K			
750417	1300			26	2000				2K		6	
750418	1125			1	2000	110			2K			
750418	1125			26	2000	120			2K		6	
750520	0835			1	13		22.5	0.02		1.82		
750520	0836			6	13					12.10		
750520	0838			14	13					3.00		
750520	0844			36	13			0.05				
750610	1140			1	13			0.02K				
750610	1141			6	13					14.82		
750610	1143			11	13					16.50		
750626	1445			1	13		27.0					
750714	1800			1	13		25.5	0.02K		4.94		
750714	1801			6	13					9.80		
750714	1804			11	13					6.65		
750714	1809			36	13			0.04				
750728	1640			1	13		31.0					
750812	0955			1	13			0.02K		6.62		
750812	0956			6	13					9.28		
750812	0958			11	13					6.84		
750812	1003			26	13			0.02K				
750909	0955			1	13			0.02K				
750909	0956			6	13					10.30		
750909	0957			11	13					10.26		
750909	1002			26	13			0.02K				
750915	1435			1	2000	348			2K			
750916	1505			1	2000	418		0.04	2K			
750916	1510			26	2000	727		0.03	2K			
750916	1511			31	2000	3100		0.08	2K			
750916	1512			36	2000	5120		0.13	2K			
750916	1514			45	2000	6600		0.20	2K			1.0K
750917	1345			1	2000	392		0.02	2K			
750917	1350			26	2000	379		0.02	2K			
750917	1353			31	2000	3210			2K			
750917	1354			36	2000	5090		0.15	2K			

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08 YELLOW JACKET CR S2098 W OF LAGR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750917	1356			42	2000	730		0.02	2K			1.0K
750918	1400			1	2000	425		0.02	2K			
750918	1405			26	2000	593		0.02	2K			
750918	1409			31	2000	2835		0.04	2K			
750918	1411			36	2000	5000		0.13	2K			
750918	1413			43	2000	7100		0.20	2K			1.0K
750919	1115			1	2000	320		0.02	2K			
750919	1120			26	2000	388		0.02	2K			
750919	1122			29	2000				2			
750919	1124			31	2000	2620		0.02	2K			
750919	1126			41	2000	335		0.02	2K			
750920	1215			1	2000	184		0.02	2			
750920	1220			26	2000	187		0.02	4			
750920	1223			39	2000	3780		0.08	2K			
751007	1635			1	13			0.04		2.77		
751007	1638			11	13					9.34		
751007	1639			16	13					2.34		
751007	1643			36	13			0.05				
751112	1540			1	13					12.24		
751112	1541			3	13					12.38		
751112	1542			6	13					12.31		

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08A JACKSON CR NW OF LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750416	1310			1	2000	15.0	76	50	29	7.4	0.7	6.3
750416	1315			8	2000	14.0				8.0		
750417	1230			1	2000	17.0	61	60	29	7.8	1.2	6.5
750417	1231			6	2000	15.0				7.6		
750417	1232			11	2000	14.0				6.2		
750417	1233			14	2000	13.5				5.4		
750418	1100			1	2000	16.5	52	45	33	7.8	0.4	6.6
750418	1101			6	2000	16.5				7.7		
750418	1102			11	2000	16.0				7.5		
750418	1103			14	2000	15.0				4.5		
750924	1430			1	13	23.0				1.6		
750924	1431			3	13	23.2				1.6		
750924	1432			6	13	23.2				1.6		
750924	1433			11	13	23.2				1.6		
750924	1434			16	13	23.2				1.6		
750924	1435			21	13	23.2				1.7		
750924	1436			26	13	23.2				1.8		
750924	1437			31	13	23.2				1.9		
750924	1438			36	13	23.2				1.8		
750925	1255			1	13	22.8				1.8		
750925	1256			3	13	22.8				1.8		
750925	1257			6	13	22.5				1.7		
750925	1258			11	13	22.5				2.1		
750925	1259			16	13	22.3				2.2		
750925	1300			21	13	22.3				2.2		
750925	1301			26	13	22.3				2.2		
750925	1302			31	13	22.5				2.1		
750925	1303			36	13	22.5				2.1		

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L
750416	1310			1	2000	9	0.04	0.12	0.10	4.6	11
750417	1230			1	2000	14	0.02	0.10	0.04	2.7	8
750418	1100			1	2000	12	0.03	0.14	0.05	3.3	

APPENDIX C-2
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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-08A JACKSON CR NW OF LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L
750416	1310			1	2000	2650	170	3400	92	62	30
750417	1230			1	2000	2350	160	390	100	81	19
750417	1233			14	2000	850	65				
750418	1100			1	2000	1800	170	70	56	46	10

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	00077 TRANSP SECCHI INCHES
750416	1310			1	2000	0.16	270	115	0.04	2K	
750417	1230			1	2000	0.12	465	120		2K	6
750417	1233			14	2000		180	40			12
750418	1100			1	2000	0.21	370	140		2K	
750418	1100										6

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-09 YELLOW JACKET CR NE OF LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750414	1326			1	2000	12.5	78	50	35	11.2	2.1
750415	1030			1	2000	13.0	123	60	29	9.2	2.6
750416	1055			1	2000	12.0	70	35	28	10.8	1.0
750417	1145			1	2000	13.0	50	45	36	9.1	1.2
750418	1135			1	2000	14.0	38	45	38	8.6	0.8
750915	1015			1	2000	18.0	38	45	72	6.2	1.8
750916	0945			1	2000	19.0	25	20	59	7.6	
750917	0925			1	2000	20.0	26	40	70	7.5	
750918	0925			1	2000	20.5	58	50	54	7.1	
750919	1335			1	2000	22.0	52	120	53	6.8	

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L
750414	1326			1	2000	6.6	16	0.01	0.10	0.03	5.0
750415	1030			1	2000	6.5	13	0.02	0.09	0.07	5.0
750416	1055			1	2000	6.9	13	0.03	0.10	0.08	4.3
750417	1145			1	2000	6.5	21	0.03	0.13	0.04	1.5
750418	1135			1	2000	6.7	17	0.02	0.13	0.03	1.8
750915	1015			1	2000	6.9	24	0.04	0.21	0.06	2.6
750916	0945			1	2000	7.0	26	0.02	0.30	0.06	2.0
750917	0925			1	2000	7.0	25	0.03	0.32	0.07	2.0
750918	0925			1	2000	6.9	23	0.05	0.20	0.16	5.0
750919	1335			1	2000	6.6	16	0.02	0.20	0.09	4.6

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L
750414	1326			1	2000	10	3075	315	3000	130	76
750415	1030			1	2000	8	3800	240	5200	112	44
750416	1055			1	2000	8	2450	200	850	92	60
750417	1145			1	2000	10	1750	200	210	68	56
750418	1135			1	2000		1725	235	140	44	31
750915	1015			1	2000	20	1600	381	310	108	85
750916	0945			1	2000	21	1550	390	2100	74	60
750917	0925			1	2000	20	1550	398	540	60	45
750918	0925			1	2000	16	3330	836	3950	100	59
750919	1335			1	2000	13	2460	484	1600	122	79

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-09 YELLOW JACKET CR NE OF LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L
750414	1326			1	2000	54	0.10	815	250	0.02	2K
750415	1030			1	2000	68	0.23				2K
750416	1055			1	2000	32	0.12				2K
750417	1145			1	2000	12	0.16	290	135		2K
750418	1135			1	2000	13	0.16	240	170		2K
750915	1015			1	2000	23	0.10	186	233	0.03	2
750916	0945			1	2000	14	0.10K	221	247	0.03	2K
750917	0925			1	2000	15	0.15	232	232	0.03	2K
750918	0925			1	2000	41	0.10	278	244	0.03	2K
750919	1335			1	2000	43	0.30	280	186	0.03	2K

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-10 CHATTAHOOCHEE R GA HY 219 NW LAG CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750414	1135			1	2000	13.0	32	40	47	6.4	1.2	6.7
750414	1140			20	2000	13.0	38	40	45	6.4	1.5	6.7
750415	1205			1	2000	13.0	54	50	38	9.1	1.3	6.3
750415	1210			21	2000	13.0	55	50	38	9.0	1.2	6.3
750416	1045			1	2000	13.2	38	45	43	7.8	1.5	6.6
750416	1050			10	2000	13.2				7.8		
750417	1445			1	2000	15.0	26	30	44	7.6	1.0	6.5
750417	1446			6	2000	15.0				7.6		
750417	1447			11	2000	15.0				7.6		
750417	1448			16	2000	14.8				7.6		
750417	1449			21	2000	14.5				7.5		
750417	1450			26	2000	14.5				7.5		
750417	1451			29	2000	14.5				7.5		
750418	1325			1	2000	16.0	28	30	46	7.8	1.3	6.6
750418	1326			6	2000	15.5				7.7		
750418	1327			11	2000	15.5				7.7		
750418	1328			16	2000	15.5				7.7		
750418	1329			21	2000	15.5				7.7		
750418	1330			25	2000	15.5				7.7		
750520	1040			1	13	23.5				7.5		
750520	1041			4	13	21.0				6.9		6.8
750520	1042			6	13	21.0				4.9		6.8
750520	1043			8	13	19.5				4.3		6.8
750520	1044			11	13	20.0				4.7		
750520	1045			16	13	19.5				4.7		
750520	1046			21	13	19.0				5.1		
750520	1047			26	13	19.0				5.5		
750520	1048			31	13	19.0				5.4		
750520	1049			36	13	19.0				5.2		
750610	1430			1	13	28.5				11.2		
750626	1620			1	13	27.5				9.2		7.3
750626	1621			6	13	27.0				8.6		
750626	1622			11	13	27.0				7.3		
750626	1623			14	13	26.0				4.5		
750626	1624			15	13	26.0				3.6		
750626	1625			16	13	26.0				3.2		
750626	1626			21	13	25.0				0.6		
750626	1627			26	13	24.5				0.1		
750626	1628			31	13	24.0				0.1		6.8
750626	1629			36	13	24.0				0.1		
750626	1630			41	13	24.0				0.1		
750715	0900			1	13	27.5				10.2		
750728	1526			1	13	29.0				10.6		8.1
750728	1527			6	13	29.0				8.9		
750728	1528			8	13	29.0						

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-10 CHATTAHOOCHEE R GA HY 219 NW LAG CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750728	1529			11	13	28.0				7.6		
750728	1530			13	13	27.0				3.6		
750728	1531			16	13	26.5				2.2		
750728	1532			18	13	26.0				1.6		
750728	1533			21	13	26.0				1.9		7.7
750728	1534			23	13	25.0				2.1		
750728	1535			26	13	25.0				2.1		
750728	1536			31	13	25.0				2.4		
750728	1537			36	13	25.0				2.3		
750728	1538			38	13	25.0				2.3		
750812	1153			1	13	24.5				4.4		6.6
750812	1154			6	13	24.0				4.5		
750812	1155			11	13	24.0				4.5		
750812	1156			16	13	24.0				4.5		
750812	1157			21	13	24.0				4.5		
750812	1158			26	13	24.0				4.5		
750812	1159			31	13	24.0				4.4		
750812	1200			36	13	24.0				4.4		
750829	1210			1	13	29.0				5.2		6.6
750829	1211			6	13	28.5				4.4		
750829	1212			11	13	28.5				4.3		
750829	1213			16	13	28.5				4.3		
750829	1214			21	13	28.2				4.2		6.6
750829	1215			26	13	28.2				4.0		
750829	1216			31	13	28.2				4.0		
750829	1217			36	13	28.0				3.1		
750829	1218			41	13	28.0				2.9		
750829	1219			45	13	28.0				0.3		
750908	1400			1	13	28.5				7.5		7.2
750908	1401			6	13	27.0				5.8		
750908	1402			8	13	27.0				5.6		
750908	1403			11	13	27.0				5.2		
750908	1404			13	13	26.0				4.5		
750908	1405			16	13	26.0				4.0		
750908	1406			21	13	24.0				4.7		
750908	1407			26	13	23.0				4.7		6.7
750908	1408			31	13	23.0				4.8		
750908	1409			36	13	23.0				4.9		
750908	1410			41	13	23.0				4.8		
750915	1630			1	2000	25.0	7	30	75	6.1	0.8	6.5
750915	1631			6	2000	25.0				5.5		
750915	1632			11	2000	25.0				5.5		
750915	1633			16	2000	25.0				5.5		
750915	1634			21	2000	25.0				5.5		
750915	1635			26	2000	25.0				5.5		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-10 CHATTAHOOCHEE R GA HY 219 NW LAG CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750915	1636			31	2000	25.0				5.5		
750915	1637			32	2000	25.0				5.4		
750915	1638			34	2000	24.5				3.0		
750915	1639			36	2000	24.5				1.1		
750915	1645			39	2000	24.0	8	35	75	0.8	0.7	6.2
750916	1320			1	2000	24.8	13	20	77	5.9		6.5
750916	1321			6	2000	24.5				5.4		
750916	1322			11	2000	24.5				5.3		
750916	1323			16	2000	24.5				5.1		
750916	1324			21	2000	24.5				5.0		
750916	1325			26	2000	24.5				5.0		
750916	1326			31	2000	24.5				5.0		
750916	1327			36	2000	24.5	16	20	71	4.9		6.5
750917	1540			1	2000	24.0	12	30	66	5.2		6.5
750917	1541			6	2000	24.0				5.2		
750917	1542			11	2000	24.0				5.2		
750917	1543			16	2000	24.0				5.2		
750917	1544			21	2000	24.0				5.1		
750917	1545			23	2000	24.0				5.2		
750917	1546			26	2000	24.0				5.1		
750917	1547			31	2000	23.8				5.0		
750917	1548			36	2000	23.5	23	30	66	4.7		6.4
750918	1145			1	2000	24.0	6	30	66	5.4		6.3
750918	1146			6	2000	24.2				5.0		
750918	1147			11	2000	24.0				4.9		
750918	1148			16	2000	23.8				4.7		
750918	1149			21	2000	23.8				4.7		
750918	1150			26	2000	23.8				4.9		
750918	1151			31	2000	23.5				4.9		
750918	1152			36	2000	23.5				4.8		
750918	1153			37	2000	23.5	15	60	71	4.8		6.3
750919	1400			1	2000	26.2	7	35	77	6.9		6.5
750919	1401			6	2000	24.2				5.2		
750919	1402			11	2000	23.6				5.2		
750919	1403			16	2000	23.4				5.0		
750919	1404			21	2000	23.4				5.0		
750919	1405			26	2000	23.4				4.9		
750919	1406			31	2000	23.3				4.9		
750919	1407			36	2000	23.3	31	20	77	4.8		6.5
750919	1408			38	2000	23.3				4.8		
751007	1330			1	13	18.2				6.2		6.2
751007	1331			3	13	17.5				6.2		
751007	1332			6	13	17.5				6.1		
751007	1333			11	13	17.2				6.0		
751007	1334			16	13	17.2				6.0		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-10 CHATTAHOOCHEE R GA HY 219 NW LAG CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
751007	1335			21	13	17.2				6.0		
751007	1336			26	13	17.2				6.0		
751007	1337			31	13	17.2				6.0		
751007	1338			36	13	17.2				6.0		6.3
751007	1339			41	13	17.2				5.9		
751112	1425			1	13	19.5				6.0		6.3
751112	1426			3	13	19.5				6.0		
751112	1427			6	13	19.8				5.9		
751112	1428			11	13	19.8				5.9		
751112	1429			16	13	19.8				5.9		
751112	1430			21	13	19.8				6.0		
751112	1431			26	13	19.5				5.9		
751112	1432			31	13	19.5				5.9		
751112	1433			36	13	19.5				5.8		

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750414	1135			1	2000	17	0.04	0.39	0.11	2.3	11	1400
750414	1140			20	2000	15	0.05	0.39	0.14	2.3	10	1600
750415	1205			1	2000	19	0.02	0.26	0.11	3.7	10	1600
750415	1210			21	2000	13	0.02	0.25	0.13	3.4	10	2425
750416	1045			1	2000	11	0.03	0.32	0.14	4.6	11	1800
750416	1050			10	2000						6	
750417	1445			1	2000	16	0.04	0.35	0.12	1.8		1250
750418	1325			1	2000	14	0.05	0.41	0.13	1.5		1100
750520	1040			1	13		0.02K	0.25	0.11			
750610	1430			1	13		0.02K	0.02K	0.07			
750715	0900			1	13		0.02K	0.21	0.07			
750812	1153			1	13		0.08	0.51	0.12			
750908	1400			1	13		0.02K	0.67	0.11			
750915	1630			1	2000	18	0.10	0.74	0.12	2.6		466
750915	1645			39	2000	20	0.38	0.57	0.12	2.6		875
750916	1320			1	2000	17	0.10	0.68	0.11	2.6	16	482
750916	1327			36	2000	16	0.10	0.69	0.12	2.0	16	576
750917	1540			1	2000	18	0.11	0.67	0.10	2.3	16	410
750917	1548			36	2000	17	0.11	0.65	0.16	2.3	16	860
750918	1145			1	2000	23	0.11	0.67	0.09	2.9	18	352
750918	1153			37	2000	20	0.14	0.74	0.16	2.3	16	866
750919	1400			1	2000	14	0.08	0.65	0.07	2.6	15	295
750919	1407			36	2000	16	0.16	0.77	0.17	3.3	16	1012
751007	1330			1	13		0.13	0.35	0.14			
751007	1338			36	13		0.15	0.40	0.17			

APPENDIX C-2

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-10 CHATTAHOOCHEE R GA HY 219 NW LAG CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750414	1135			1	2000	180	2000	62	38	24	0.21	
750414	1140			20	2000	140		82	37	45	0.21	
750415	1205			1	2000	120	2350	102	24	78	0.16	145
750415	1210			21	2000	135		108	28	80	0.16	160
750416	1045			1	2000	85	5600	102	46	56	0.43	145
750417	1445			1	2000	75	3400	58	43	15	0.21	160
750418	1325			1	2000	85	3300	54	32	22	0.26	160
750520	1040			1	13		91				0.20	
750610	1430			1	13		30K				0.50	
750626	1620			1	13		30K					
750715	0900			1	13		91					
750728	1526			1	13		30K					
750812	1153			1	13		36					
750908	1400			1	13		30K					
750915	1630			1	2000	97	5K				0.30	90
750915	1645			39	2000	745					0.56	186
750916	1320			1	2000	147	2K	58	50	8	0.35	95
750916	1327			36	2000	175		60	48	12	0.24	72
750917	1540			1	2000	140	2K	64	47	17	0.33	68
750917	1548			36	2000	330		68	37	31	0.42	125
750918	1145			1	2000	140	2K	48	38	10	0.33	65
750918	1153			37	2000	230		62	43	19	0.25	149
750919	1400			1	2000	150	2K	66	45	21	0.39	58
750919	1407			36	2000	230		64	37	27	0.50	99
751007	1330			1	13		4300					

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES
750414	1135			1	2000				2K		
750414	1135										24
750414	1140			20	2000				2K		
750415	1205			1	2000	25		0.04	2K		
750415	1205										12
750415	1210			21	2000	35		0.03	2K		
750416	1045			1	2000	30		0.05	2K		
750416	1045										6
750417	1445			1	2000	20			2K		
750417	1445										18
750418	1325			1	2000	29			2K		
750418	1325										18
750520	1040			1	13		30.0	0.05		1.82	
750520	1041			4	13					12.10	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-10 CHATTAHOOCHEE R GA HY 219 NW LAG CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES
750520	1042			6	13					3.00	
750610	1430			1	13		30.0	0.02K		42.00	
750626	1620			1	13		25.0				
750715	0900			1	13			0.03		6.97	
750812	1153			1	13			0.05		4.60	
750812	1154			6	13					9.00	
750812	1155			11	13					0.98	
750908	1400			1	13			0.05		3.34	
750908	1401			6	13					7.64	
750908	1403			11	13					7.86	
750908	1407			26	13			0.08			
750915	1630			1	2000	52		0.07			
750915	1645			39	2000	630		0.05			
750916	1320			1	2000	50		0.05	2K		
750916	1327			36	2000	72		0.07	2K		
750917	1540			1	2000	54		0.05	6		
750917	1548			36	2000	174		0.06	4		
750918	1145			1	2000	70		0.05			
750918	1153			37	2000	175		0.06	4		
750919	1400			1	2000	92		0.04	6		
750919	1407			36	2000	161		0.07	5		
751007	1330			1	13			0.05		2.09	
751007	1332			6	13					1.89	
751007	1338			36	13			0.06			
751112	1426			3	13					2.48	
751112	1427			6	13					1.88	
751112	1428			11	13					3.79	

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-11 NEW R US 27 S OF FRANKLIN CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750414	1500			1	2000	12.0	58	40	38	12.0	4.5	6.8
750415	1100			1	2000	12.0	48	40	32	8.9	1.6	6.6
750416	1115			1	2000	12.5	44	45	33	10.5	1.0	6.9
750417	1110			1	2000	13.0	25	45	40	8.7	1.0	6.5
750418	1105			1	2000	15.0	23	40	40	8.3	0.7	6.6
750915	1105			1	2000	20.0	19	50	87	6.2	0.9	6.8
750916	1015			1	2000	19.0	14	20	92	7.4		7.1
750917	0955			1	2000	20.0	14	40	92	7.4		7.0
750918	1010			1	2000	20.5	29	40	76	7.1		6.9
750919	1300			1	2000	22.0	21	60	70	6.7		6.7

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L
750414	1500			1	2000	14	0.04	0.13	0.06	5.3	8
750415	1100			1	2000	17	0.01K	0.08	0.05	3.5	8
750416	1115			1	2000	14	0.01	0.07	0.05	3.0	9
750417	1110			1	2000	18	0.02	0.10	0.04	1.2	10
750418	1105			1	2000	16	0.02	0.10	0.04	1.2	
750915	1105			1	2000	28	0.02	0.12	0.04	2.3	22
750916	1015			1	2000	26	0.02	0.14	0.04	2.0	24
750917	0955			1	2000	25	0.03	0.14	0.05	2.0	22
750918	1010			1	2000	26	0.01	0.17	0.09	4.0	18
750919	1300			1	2000	18	0.02	0.14	0.08	4.3	18

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L
750414	1500			1	2000	2350	160	5800	168	118	50
750415	1100			1	2000	1775	137	2600	62	42	20
750416	1115			1	2000	1500	85	450	54	47	7
750417	1110			1	2000	1050	100	90	46	37	9
750418	1105			1	2000	1075	110	175	44	36	8
750915	1105			1	2000	1180	480	120	112	100	12
750916	1015			1	2000	1131	485	90	100	89	11
750917	0955			1	2000	1150	558	260	64	62	2
750918	1010			1	2000	1930	286	7100	62	45	17
750919	1300			1	2000	1690	251	920	96	83	13

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-11 NEW R US 27 S OF FRANKLIN CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	00745 SULFIDE TOTAL MG/L
750414	1500			1	2000	0.18				2K	
750415	1100			1	2000	0.16				2K	
750416	1115			1	2000	0.10				2K	
750417	1110			1	2000	0.10	335	55		2K	1.0K
750418	1105			1	2000	0.06	255	60		2K	
750915	1105			1	2000	0.10K	218	398	0.02	7	
750916	1015			1	2000	0.12	214	464	0.02	7	
750917	0955			1	2000	0.10K	243	469	0.02	6	
750918	1010			1	2000	0.22	292	197	0.03	3	
750919	1300			1	2000	0.10K	251	197	0.03	6	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-12 CHATTAHOOCHEE R US 27, FRANKLIN CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750122	1155			1	13	9.0	22	30	74	8.8	3.3	6.8
750220	1145			1	13	11.0	160	80	68	7.6	6.8	6.0
750320	1230			1	13	10.0	100	80	39	9.2	3.2	6.9
750404	1230			1	13	12.0	128	80	36	7.9	7.0	6.0
750414	1525			1	2000	13.0	29	40	39	11.0	3.3	6.9
750415	1130			1	2000	12.0	48	35	50	8.6	1.7	6.6
750416	1135			1	2000	11.5	38	35	38	10.8	1.4	6.7
750417	1030			1	2000	12.0	28	35	45	9.0	2.9	6.4
750418	1035			1	2000	14.0	23	30	42	8.8	1.3	6.6
750520	1330			1	13	23.0				6.6		6.1
750522	1250			1	13	20.0	32	15	47	7.3	0.4	6.6
750610	1530			1	13	24.5				11.2		
750626	1220			1	13	27.0	18	25	93	4.8	3.6	6.7
750627	1205			1	13	26.0				5.6		6.0
750703	1535			1	13	28.0				5.5		
750708	1510			1	13	26.0				5.2		
750715	0850			1	13	25.0				6.0		
750715	0945			1	13	25.0				5.4		
750717	1400			1	13	28.0				5.5		
750720	1425			1	13	27.5				6.3		
750723	1230			1	13	26.3				5.6		
750725	0740			1	13	26.8				5.6		
750728	1240			1	13	26.5	76	40	60	6.5	1.3	8.3
750729	1240			1	13	26.0				5.5		
750731	1445			1	13	22.5				6.3		
750802	1427			1	13	27.0				4.5		
750805	1230			1	13	28.0				5.6		
750807	1354			1	13	25.0				5.5		
750810	1255			1	13	24.0				6.5		
750812	1245			1	13	25.0						
750813	1355			1	13	26.0				5.8		
750815	0800			1	13	21.0				5.6		
750819	1050			1	13	27.0	19	10	70	5.9	0.9	7.0
750821	1255			1	13	28.5				6.2		
750826	1600			1	13	31.0				7.2		
750829	1300			1	13	22.0						
750903	1130			1	13	28.5				5.9		
750907	0855			1	13	20.5				7.6		
750908	1110			1	13	27.0				5.7		6.7
750911	1650			1	13	28.5				5.7		
750914	1455			1	13	23.5				5.8		
750915	1140			1	2000	21.0	38	50	72	6.2	0.9	6.8
750916	1050			1	2000	22.0	34	20	81	7.1		6.9
750916	1245			1	13	22.5	24	40	76	6.7	1.1	
750917	1025			1	2000	23.0	14	30	86	6.8		6.9

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-12 CHATTAHOOCHEE R US 27, FRANKLIN CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750917	1335			1	13	23.0				6.6		
750918	1055			1	2000	23.0	14	25	86	6.6		6.8
750919	1155			1	2000	21.5	52	20	70	5.2		6.5
750925	1515			3	13	19.8				6.2		
750929	1350			3	13	19.8				7.4		
751112	1215			1	13	16.0				4.7		6.3

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00403 LAB PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L
750122	1115			1	13			0.26	0.63	0.25	5.0	19
750122	1155			1	13		40					
750220	1145			1	13		14	0.12	0.32	0.43	11.0	14
750320	1230			1	13		10	0.12	0.28	0.19	6.0	10
750404	1230			1	13		28	0.08	0.22	0.24	8.0	10
750414	1525			1	2000		11	0.02	0.30	0.09	2.6	6
750415	1130			1	2000		25	0.10	0.41	0.18	3.5	11
750416	1135			1	2000		13	0.03	0.28	0.12	4.3	10
750417	1030			1	2000		15	0.05	0.34	0.10	1.5	10
750418	1035			1	2000		14	0.04	0.37	0.11	1.2	
750520	1330			1	13			0.07	0.60	0.23		
750522	1250			1	13		36	0.07	0.34	0.16	6.0	12
750610	1530			1	13			0.07	0.54	0.15		
750626	1220			1	13		36	0.84	0.50	0.30	6.0	21
750715	0850			1	13			0.09	0.81	0.20		
750715	0945			1	13			0.12	0.79	0.21		
750720	1425			1	13			0.08	0.80	0.21		
750725	0740			1	13			0.13	0.79	0.26		
750728	1240			1	13	6.9	13	0.10	0.56	0.18	4.0	15
750731	1445			1	13			0.14	0.83	0.30		
750805	1230			1	13			0.15	0.96	0.34		
750810	1255			1	13			0.05	0.60	0.24		
750812	1245			1	13			0.10	0.48	0.40		
750815	0800			1	13			0.19	0.45	0.32		
750819	1050			1	13	7.0	16	0.08	0.89	0.16	5.0	16
750821	1255			1	13			0.09	0.94	0.27		
750826	1600			1	13			0.12	1.07	0.21		
750903	1130			1	13			0.17	1.00	0.26		
750908	1110			1	13			0.34	1.08	0.23		
750911	1650			1	13			0.24	1.05	0.36		
750914	1455			1	13			0.14	0.80	0.23		
750915	1140			1	2000		18	0.09	0.69	0.21	2.9	16
750916	1050			1	2000		20	0.16	1.00	0.22	2.6	18

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-12 CHATTAHOOCHEE R US 27, FRANKLIN CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00403 LAB PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L
750916	1245			1	13	6.9	17	0.26	0.96	0.28	6.0	19
750917	1025			1	2000		15	0.32	1.18	0.27	2.6	18
750918	1055			1	2000		21	0.13	0.98	0.34	2.9	17
750919	1155			1	2000		14	0.16	0.81	0.45	6.1	16
750929	1350			3	13			0.12	0.89	0.24		

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L
750122	1115			1	13	1300	1500	4300				
750122	1155			1	13				83		25	
750220	1145			1	13	6500	1400	15000	316		236	
750320	1230			1	13	4100	900	4300	260		132	
750404	1230			1	13	3400	1000	43000	226		194	
750414	1525			1	2000	650	60	1700	110	80	30	0.18
750415	1130			1	2000	5240	530	4600	108	34	74	0.26
750416	1135			1	2000	8750	75	2250	90	39	51	0.18
750417	1030			1	2000	1050	130	2250	66	47	19	0.45
750418	1035			1	2000	900	70	3600	56	37	19	0.21
750520	1330			1	13			3900				0.30
750522	1250			1	13	2200	5000	9300	107		75	
750610	1530			1	13			2300				0.40
750626	1220			1	13	1200		930	94		24	
750627	1205			1	13			4300				
750715	0850			1	13			430				
750715	0945			1	13			930				
750720	1425			1	13			430				
750725	0740			1	13			750				
750728	1240			1	13	2400		930				
750729	1240			1	13			2300				
750731	1445			1	13			4300				
750805	1230			1	13			640				
750810	1255			1	13			9300				
750812	1245			1	13			23000				
750819	1050			1	13			2300				
750821	1255			1	13			9				
750826	1600			1	13			73				
750829	1300			1	13			1500				
750903	1130			1	13			930				
750908	1110			1	13			2300				
750911	1650			1	13			2300				
0914	1455			1	13			2300				
15	1140			1	2000	815	60	420	104	85	19	0.20

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-12 CHATTAHOOCHEE R US 27, FRANKLIN CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L
750916	1050			1	2000	741	60	400	90	78	12	0.42
750916	1245			1	13	1150		430	90		21	
750917	1025			1	2000	728	58	230	68	68	1K	0.59
750918	1055			1	2000	1730	134	720	88	58	30	0.46
750919	1155			1	2000	2250	240	8200	182	99	83	0.35
750929	1350			3	13			2300				

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00940 CHLORIDE CL MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L
750122	1115			1	13	5		60			8	
750122	1155			1	13				10.0			
750220	1145			1	13	5		400	6.0		9	
750320	1230			1	13	2		180	20.0		6	
750404	1230			1	13	4		50	8.0		4	
750414	1525			1	2000		175			0.03	2K	
750415	1130			1	2000		1725	140		0.18	2K	
750416	1135			1	2000		145	30		0.05	2K	
750417	1030			1	2000		130	35			2K	
750418	1035			1	2000		120	10K			2K	
750520	1330			1	13				30.0	0.08		0.00
750522	1250			1	13	3		120	31.0		6	
750610	1530			1	13				30.0	0.08		4.10
750610	1531			1	13							2.70
750610	1532			1	13							2.80
750626	1220			1	13	6		210	25.0		10	
750627	1205			1	13				26.0			
750703	1535			1	13				35.5			
750708	1510			1	13				27.0			
750715	0850			1	13				22.4	0.13		
750715	0945			1	13				23.0	0.13		2.64
750715	0946			1	13							0.93
750715	0947			1	13							1.73
750717	1400			1	13				31.0			
750720	1425			1	13				34.4	0.13		
750723	1230			1	13				29.5			
750725	0740			1	13				25.0	0.16		
750728	1240			1	13	4		50K			9	
750729	1240			1	13				26.0			
750731	1445			1	13				24.0	0.09		
750802	1427			1	13				30.5			
750805	1230			1	13				26.7	0.18		
750807	1354			1	13				25.5			

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-12 CHATTAHOOCHEE R US 27, FRANKLIN CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00940 CHLORIDE CL MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L
750810	1255			1	13							
750812	1245			1	13				35.5	0.07		
750813	1355			1	13					0.09		
750815	0800			1	13				32.0			
750821	1255			1	13				33.0	0.11		
750826	1600			1	13				33.0	0.24		
750903	1130			1	13				36.0	0.14		
750907	0855			1	13				28.0	0.16		
750908	1110			1	13				22.5			
750908	1111			1	13					0.14		8.39
750911	1650			1	13							2.03
750914	1455			1	13				30.0	0.16		
750915	1140			1	2000		118	30	25.5	0.13		
750916	1050			1	2000		190	34		0.13	4	
750916	1245			1	13	5		60		0.15	9	
750917	1025			1	2000		174	30			9	
750917	1335			1	13					0.20	5	
750918	1055			1	2000		163	28	21.0			
750919	1155			1	2000		120	20		0.17	4	
750925	1515			3	13					0.13	4	
750929	1350			3	13				22.0			
751112	1215			1	13				26.0	0.10		
												5.54

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00094 CNDUCTVY FIELD MICROMHO	00910 CALCIUM CACO3 MG/L	00929 SODIUM NA,TOT MG/L	00937 PTSSIUM K,TOT MG/L
750122	1115			1		4.6	5.00	2.50
750122	1155			1	81			
750220	1145			1	53	3.6	4.20	3.60
750320	1230			1	40	2.3	2.10	2.10
750404	1230			1	39	2.1	2.20	1.70
750522	1250			1	40	5.3	2.90	2.10
750626	1220			1	88		7.20	2.60
750728	1240			1			4.00	2.40
750916	1245			1			6.20	2.20

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13 WEHADKEE CR HWY 238 SW LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750414	1630			1	2000	16.0	38	40	29	5.2	0.8	6.4
750414	1635			19	2000	13.0	36	35	29	0.6	2.0	6.4
750415	1640			1	2000	16.0	33	50	29	7.9	0.7	6.5
750415	1646			10	2000	15.0				7.2		
750415	1647			20	2000	14.0				4.4		
750415	1648			30	2000	14.0				1.8		
750415	1649			40	2000	12.0				0.0		
750415	1650			41	2000	12.0	48	70	57	0.0	3.2	6.0
750416	1630			1	2000	17.0	31	50	29	8.6	1.0	6.8
750416	1631			5	2000	15.0				7.2		
750416	1632			11	2000	14.5				6.6		
750416	1633			16	2000	14.0				3.6		
750416	1634			21	2000	13.8				2.0		
750416	1635			26	2000	13.8				1.8		
750416	1636			31	2000	13.0				0.1		
750416	1637			36	2000	13.5				0.1		
750416	1638			41	2000	13.0	65	70	58	0.2	6.4	6.8
750417	1005			1	2000	17.2	27	50	31	7.7	1.1	6.0
750417	1006			4	2000	15.0				7.0		
750417	1007			9	2000	14.5				6.5		
750417	1008			14	2000	14.0				5.4		
750417	1009			19	2000	13.8				3.0		
750417	1010			24	2000	13.5				1.9		
750417	1011			29	2000	13.0				1.0		
750417	1012			34	2000	12.5				0.0		
750417	1013			39	2000	12.0				0.0		
750417	1014			44	2000	12.0	52	50	27	0.0	0.4	6.4
750418	0910			1	2000	14.3	28	50	31	8.3	1.2	6.5
750418	0911			6	2000	15.0				6.2		
750418	0912			11	2000	14.3				5.3		
750418	0913			16	2000	14.0				4.5		
750418	0914			21	2000	14.0				3.4		
750418	0915			26	2000	13.8				2.3		
750418	0916			31	2000	13.0				0.5		
750418	0917			36	2000	12.0				0.0		
750418	0918			41	2000	12.0	54	70	59	0.0	4.4	6.4
750519	1710			1	13	28.0				16.4		9.2
750519	1711			6	13	24.0				11.7		9.1
750519	1712			11	13	23.5				10.5		
750519	1713			13	13	22.5				10.0		
750519	1714			16	13	22.0				2.2		
750519	1715			18	13	20.0				0.7		
750519	1716			21	13	20.0				1.1		
750519	1717			26	13	20.0				1.4		
750519	1718			31	13	19.0				1.0		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13 WEHADKEE CR HWY 238 SW LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750519	1719			36	13	19.0				0.8		
750519	1720			41	13	18.5				0.2		
750519	1721			46	13	18.0				0.0		7.2
750609	1640			1	13	28.5				9.2		8.7
750609	1641			6	13	27.5				9.6		
750609	1642			11	13	26.0				6.6		
750609	1643			16	13	25.0				0.4		
750609	1644			21	13	23.5				0.1		
750609	1645			26	13	21.5				0.1		
750609	1646			31	13	21.0				0.1		
750609	1647			36	13	20.0				0.1K		
750609	1648			41	13	19.5				0.1K		6.3
750627	0930			1	13	26.5				7.2		6.7
750627	0931			6	13	26.5				6.8		
750627	0932			11	13	27.0				6.6		
750627	0933			13	13	27.0				6.5		
750627	0934			16	13	27.0				4.7		
750627	0935			18	13	27.0				3.4		
750627	0936			19	13	26.5				2.2		
750627	0937			21	13	26.5				0.4		
750627	0938			23	13	25.5				0.1		
750627	0939			26	13	24.5				0.1		6.5
750627	0940			31	13	23.5				0.1		
750627	0941			36	13	23.0				0.1		
750627	0942			41	13	22.0				0.1		
750714	1515			1	13	30.0				8.2		
750714	1516			6	13	28.8				8.3		
750714	1517			8	13	27.5				8.2		
750714	1518			11	13	27.0				6.1		
750714	1519			14	13	27.0				5.0		
750714	1520			16	13	27.0				3.8		
750714	1521			18	13	26.5				1.7		
750714	1522			21	13	26.5				0.3		
750714	1523			26	13	25.5				0.1		
750714	1524			31	13	24.0				0.0		
750714	1525			36	13	23.5				0.0		
750714	1526			41	13	23.5				0.0		
750729	0910			1	13	27.5				7.1		7.4
750729	0911			6	13	28.0				7.0		
750729	0912			11	13	28.0				6.9		
750729	0913			16	13	28.0				6.1		
750729	0914			18	13	27.8				0.1K		7.7
750729	0915			21	13	27.0				0.1K		
750729	0916			31	13	25.5				0.1K		
750729	0917			36	13	25.0				0.1K		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13 WEHADKEE CR HWY 238 SW LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750811	1717			1	13	28.5				8.4		8.4
750811	1718			6	13	28.0				7.6		
750811	1719			11	13	27.5				7.2		
750811	1720			16	13	27.5				6.2		
750811	1721			18	13	27.0				3.6		
750811	1722			21	13	27.0				0.9		
750811	1723			23	13	26.5				0.1K		
750811	1724			26	13	26.5				0.1K		
750811	1725			31	13	26.0				0.1K		7.8
750811	1726			36	13	26.0				0.1K		
750811	1727			41	13	25.0				0.1K		
750811	1728			45	13	24.5				0.1K		
750829	1015			1	13	28.5				5.5		6.8
750829	1016			6	13	28.5				5.5		
750829	1017			11	13	28.5				5.4		
750829	1018			16	13	28.5				5.4		
750829	1019			18	13	28.2				3.5		
750829	1020			21	13	27.0				0.1K		
750829	1021			26	13	26.0				0.0		6.3
750829	1022			31	13	25.5				0.0		
750829	1023			36	13	25.0				0.0		
750908	1805			1	13	29.0				6.4		7.3
750908	1806			6	13	28.5				6.2		
750908	1807			11	13	28.0				5.1		
750908	1808			16	13	28.0				4.7		
750908	1809			18	13	28.0				4.4		
750908	1810			21	13	28.0				2.5		
750908	1811			23	13	27.0				0.1K		
750908	1812			26	13	27.0				0.1K		
750908	1813			31	13	26.5				0.1K		
750908	1814			36	13	25.5				0.1K		6.3
750908	1815			41	13	25.0				0.1K		
750916	1840			1	2000	25.8	4K	20	66	4.3		6.6
750916	1841			6	2000	26.0				4.3		
750916	1842			11	2000	26.0				4.6		
750916	1843			16	2000	25.5				2.9		
750916	1844			21	2000	25.5				2.9		
750916	1845			26	2000	25.5				3.5		
750916	1846			31	2000	25.5	4	20	66	2.9		6.4
750916	1847			36	2000	25.3	12	70	64	0.3		6.2
750916	1848			41	2000	24.8	14	50	66	0.0		6.2
750916	1849			45	2000	24.5				0.0		
750916	1850			56	2000		21	200	110			6.3
750917	1100			1	2000	25.5	4K	20	66	4.2		6.5
750917	1101			6	2000	25.8				4.1		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13 WEHADKEE CR HWY 238 SW LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750917	1102			11	2000	25.8				4.0		
750917	1103			16	2000	25.8				4.1		
750917	1104			21	2000	25.8				4.1		
750917	1105			26	2000	25.8				3.9		
750917	1106			31	2000	25.8	4K	30	61	3.9		6.2
750917	1107			33	2000	25.5				3.5		
750917	1108			36	2000	25.5	9	70	61	0.4		6.2
750917	1109			41	2000	25.0	11	70	61	0.3		
750917	1110			45	2000	24.8				0.2		
750917	1111			56	2000		21	240	102			
750918	1630			1	2000	26.8	4K	20	61	3.4		6.2
750918	1631			6	2000	25.5				2.2		6.4
750918	1632			11	2000	25.2				1.8		
750918	1633			16	2000	25.2				1.9		
750918	1634			21	2000	25.2				2.7		
750918	1635			26	2000	25.2				3.0		
750918	1636			31	2000	25.2				3.2		
750918	1637			36	2000	25.2	4K	20	61	2.7		6.4
750918	1638			38	2000	25.0				3.0		
750918	1639			40	2000	25.0				1.1		
750918	1640			41	2000	25.0	8	70	66	0.4		6.3
750918	1641			46	2000	24.8	11	70	71	0.1K		6.2
750918	1642			53	2000		15	200	102			6.1
750919	0925			1	2000	25.0	4K	20	72	3.1		6.1
750919	0926			6	2000	25.0				3.0		
750919	0927			11	2000	25.0				3.0		
750919	0928			16	2000	25.0				2.9		
750919	0929			21	2000	25.0				2.9		
750919	0930			26	2000	25.0				2.9		
750919	0931			31	2000	25.0				2.8		
750919	0932			36	2000	25.0	4K	20	66	2.9		6.1
750919	0933			41	2000	25.0	9	140	72	2.3		5.9
750919	0934			42	2000	25.0				0.0		
750919	0935			43	2000	25.0				0.0		
750919	0936			45	2000	24.6	9	140	66	0.0		5.9
750919	0937			50	2000	23.6	23	280	88	0.0		5.9
750919	0938			55	2000	22.8				0.0		
750919	0939			59	2000	22.0				0.0		
750920	0930			1	2000	26.0	4K	20	72	5.4	0.8	6.3
750920	0931			6	2000	25.8				4.5		
750920	0932			10	2000	25.3				2.2		
750920	0933			11	2000	25.3				2.2		
750920	0934			13	2000	25.2				2.9		
750920	0935			16	2000	25.2				3.0		
920	0936			21	2000	25.1				2.8		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13 WEHADKEE CR HWY 238 SW LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750920	0937			26	2000	25.1				2.9		
750920	0938			31	2000	25.1	4K	30	66	2.7	0.4	6.2
750920	0939			36	2000	25.1	4K	20	72	2.3	1.0	6.1
750920	0940			40	2000	25.1				2.1		
750920	0941			41	2000	25.0	8	160	72	0.1	3.6L	6.0
750920	0942			46	2000	25.0				0.1		
750920	0943			55	2000		17	280	77		10.8L	5.9
750924	1005			1	13	23.2				3.0		
750924	1006			3	13	23.5				2.9		
750924	1007			6	13	23.5				2.8		
750924	1008			11	13	23.5				2.8		
750924	1009			16	13	23.5				2.8		
750924	1010			21	13	23.5				2.8		
750924	1011			26	13	23.5				2.8		
750924	1012			31	13	23.5				2.9		
750924	1013			36	13	23.5				2.7		
750924	1014			41	13	23.5				2.8		
750924	1015			46	13	23.5				2.8		
750925	1700			1	2000	23.0	4	50	66	1.8		6.0
750925	1701			6	2000	23.2				1.6		
750925	1702			11	2000	23.2				1.6		
750925	1703			16	2000	23.3				1.6		
750925	1704			21	2000	23.3				1.6		
750925	1705			26	2000	23.3				1.6		
750925	1706			31	2000	23.3				2.2		
750925	1707			36	2000	23.2				2.0		
750925	1708			40	2000	23.2				2.0		
750925	1709			41	2000	23.2				2.0		
750925	1710			45	2000	23.1				1.5		
750925	1711			50	2000	23.1				1.6		
750925	1712			55	2000	23.0				1.3		
750925	1713			57	2000	23.0	14	60	72			6.1
750925	1714			60	2000	23.0				0.6		
750925	1715			65	2000	22.3				0.0		
751008	1105			1	13	21.0				5.0		6.4
751008	1106			3	13	21.0				5.0		
751008	1107			6	13	20.8				5.0		
751008	1108			11	13	20.8				4.9		
751008	1109			16	13	20.8				4.4		
751008	1110			21	13	20.5				4.3		
751008	1111			26	13	20.5				4.5		
751008	1112			31	13	20.5				4.5		
751008	1113			36	13	20.5				4.5		6.7
751008	1114			41	13	20.5				4.7		
751008	1115			46	13	20.4				4.7		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13 WEHADKEE CR HWY 238 SW LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750414	1630			1	2000	15	0.02	0.09	0.02	4.0	8	1500
750414	1635			19	2000	14	0.04	0.09	0.03	4.0	8	1450
750415	1640			1	2000	16	0.01K	0.10	0.03	3.5	8	1100
750415	1650			41	2000	30	0.37	0.01	0.13	7.1	20	2550
750416	1630			1	2000	14	0.02	0.10	0.08	2.4	10	1137
750416	1638			41	2000	30	0.47	0.02	0.11	7.2	18	10450
750417	1005			1	2000	16	0.02	0.10	0.03	2.7	6	3690
750417	1014			44	2000	19	0.05	0.10	0.04	3.6	6	9300
750418	0910			1	2000	13	0.07	0.10	0.02	2.1		1050
750418	0918			41	2000	30	0.56	0.02	0.08	7.2		10000
750519	1710			1	13		0.02K	0.08	0.09			
750519	1721			46	13		0.20	0.23	0.14			
750609	1640			1	13		0.02K	0.02K	0.02			
750609	1648			4	13		0.19	0.02K	0.04			
750714	1515			1	13		0.02K	0.02K	0.02			
750714	1525			36	13		0.13	0.02K	0.09			
750811	1717			1	13		0.02	0.05	0.03			
750811	1725			31	13		0.02K	0.05	0.03			
750908	1805			1	13		0.02K	0.02	0.02			
750908	1814			36	13		0.24	0.02	0.02			
750916	1840			1	2000	20	0.05	0.08	0.02	2.6	16	372
750916	1846			31	2000	23	0.09	0.10	0.02	2.6	16	503
750916	1847			36	2000	23	0.30	0.08	0.05	2.9	16	2430
750916	1848			41	2000	31	0.43	0.08	0.04	4.6	15	4780
750916	1850			56	2000	56	2.25	0.08	0.11	6.1	25	14200
750917	1100			1	2000	23	0.08	0.11	0.02	2.6	17	271
750917	1106			31	2000	27	0.08	0.10	0.02	2.9	16	312
750917	1108			36	2000	27	0.30	0.07	0.02	2.9	16	2300
750917	1109			41	2000	30	0.50	0.08	0.08	4.2	15	4260
750917	1111			56	2000	60	1.75	0.08	0.12	6.4	30	15450
750918	1630			1	2000	20	0.09	0.01	0.03	2.6	16	470
750918	1637			36	2000	23	0.13	0.05	0.03	2.0	16	385
750918	1640			41	2000	30	0.48	0.49	0.04	2.9	17	3750
750918	1641			46	2000	37	0.62	0.07	0.04	4.2	16	6010
750918	1642			53	2000	48	1.26	0.07	0.08	5.5	25	12310
750919	0925			1	2000	24	0.11	0.07	0.02	2.9	16	267
750919	0932			36	2000	20	0.13	0.07	0.02	2.9	16	380
750919	0933			41	2000	32	0.60	0.03	0.03	4.0	18	5505
750919	0936			45	2000	25	0.61	0.03	0.03	5.0	21	6330
750919	0937			50	2000	38	1.67	0.03	0.09	5.6	25	14910
750920	0930			1	2000	20	0.12	0.13	0.03	3.4	16	193
750920	0938			31	2000	20	0.15	0.09	0.03	3.0	16	218
750920	0939			36	2000	18	0.15	0.09	0.03	2.7	15	236
750920	0941			41	2000	24	0.64	0.02	0.04	4.8	16	5450
750920	0943			55	2000	32	2.13	0.03	0.11	5.3	22	17020

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13 WEHADKEE CR HWY 238 SW LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750925	1700			1	2000	18	0.16	0.03	0.03	3.0	16	112
750925	1713			57	2000	24	0.38	0.07	0.09	5.5	18	4200
751008	1105			1	13		0.42	0.09	0.10			
751008	1113			36	13		0.38	0.09	0.09			

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750414	1630			1	2000	140	10K	36	30	6	0.26	
750414	1635			19	2000	145		88	81	7	0.16	
750415	1640			1	2000	135	5K	64	50	14	0.23	150
750415	1650			41	2000	650		80	60	20	0.51	255
750416	1630			1	2000	167	10	50	49	1	0.16	490
750416	1638			41	2000	4720		106	54	52	0.65	7400
750417	1005			1	2000	2320	4	108	105	3	0.16	1100
750417	1005			44		5120						
750417	1014			44	2000			118	107	11	0.23	385
750418	0910			1	2000	185		50	39	11	0.16	190
750418	0918			41	2000	5280		84	54	30	0.68	7400
750519	1710			1	13		30K				1.00	
750519	1721			46	13						0.40	
750609	1640			1	13		30K				0.40	
750609	1648			41	13						0.30	
750627	0930			1	13		30K					
750714	1515			1	13		30K					
750729	0910			1	13		30K					
750811	1717			1	13		30K					
750829	1015			1	13		30K					
750908	1805			1	13		30K					
750916	1840			1	2000	242	5K	46	44	2	0.22	
750916	1846			31	2000	312		44	42	2	0.26	
750916	1847			36	2000	1126		48	48	1K	0.55	
750916	1848			41	2000	1177		60	52	8	0.55	25
750916	1850			56	2000	3650		88	70	18	1.98	
750917	1100			1	2000	170	2K	78	68	10	0.37	58
750917	1106			31	2000	179		36	28	8	0.42	285
750917	1108			36	2000	1150		42	32	10	0.37	
750917	1109			41	2000	1229		34	23	11	0.56	4050
750917	1111			56	2000	3700		82	75	7	2.40	15340
750918	1630			1	2000	220	2K	48	38	10	0.37	140
750918	1637			36	2000	197		44	40	4	0.42	151
750918	1640			41	2000	1327		60	49	11	0.42	
750918	1641			46	2000	1620		56	42	14	0.93	5740

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13 WEHADKEE CR HWY 238 SW LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750918	1642			53	2000	2955		80	52	28	1.60	8910
750919	0925			1	2000	150	2K	82	81	1	0.25	50
750919	0932			36	2000	180		62	59	3	0.25	254
750919	0933			41	2000	1850		76	66	10	0.77	
750919	0936			45	2000	1890		98	76	22	0.77	6010
750919	0937			50	2000	3560		98	66	32	1.90	14800
750920	0930			1	2000	69		40	11	29	0.30	24
750920	0938			31	2000	112		58	34	24	0.30	70
750920	0939			36	2000	112		52	28	24	0.30	
750920	0941			41	2000	2060		70	38	32	0.88	5620
750920	0943			55	2000	4250		92	41	51	2.50	16250
750925	1700			1	2000	458		64	62	2	0.39	
750925	1713			57	2000	1012		96	77	19	0.50	2500
751008	1105			1	13		30K					

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750414	1630			1	2000				2K			
750414	1630										24	
750414	1635			19	2000				2K			
750415	1640			1	2000	115		0.03	2K			
750415	1640										24	
750415	1650			41	2000	425		0.04	2K			1.0K
750416	1630			1	2000	160			2K			
750416	1638			41	2000	4320			2K			1.0K
750416	1640				2000						24	
750417	1005			1	2000	170			2K			
750417	1014			44	2000	155			2K			1.0K
750418	0910			1	2000	140			2K			
750418	0918			41	2000	3760			2K			
750519	1710			1	13		30.0	0.05		91.50		
750519	1711			6	13					23.80		
750519	1713			13	13					23.00		
750519	1721			46	13			0.02				
750609	1640			1	13		22.0	0.02		13.85		
750609	1641			6	13					11.81		
750609	1642			11	13					18.27		
750609	1648			41	13			0.04				
750627	0930			1	13		26.0					
750714	1515			1	13		25.5	0.02K		1.84		
0714	1516			6	13					2.96		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13 WEHADKEE CR HWY 238 SW LAGRANGE CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750714	1525			36	13			0.02K				
750811	1717			1	13			0.02K		5.76		
750811	1719			11	13					13.71		
750811	1721			18	13					4.93		
750811	1725			31	13			0.02K				
750908	1805			1	13			0.02K		9.55		
750908	1807			11	13					9.86		
750908	1809			18	13					6.62		
750908	1814			36	13			0.02K				
750916	1840			1	2000				3			
750916	1846			31	2000				3			
750916	1847			36	2000				2K			
750916	1848			41	2000				2K			
750916	1850			56	2000				2K			1.0K
750917	1100			1	2000	10		0.01	2K			
750917	1106			31	2000	70		0.01	2			
750917	1108			36	2000				2K			
750917	1109			41	2000			0.02	2K			
750917	I111			56	2000	3800		0.09	2K			1.0K
750918	1630			1	2000	10K		0.01	2			
750918	1637			36	2000	140		0.01	2K			
750918	1640			41	2000				2K			
750918	1641			46	2000	1585		0.02	2K			
750918	1642			53	2000	2100		0.05	2K			1.0K
750919	0925			1	2000	10K		0.02	3			
750919	0932			36	2000	60		0.02	2			
750919	0933			41	2000				2K			
750919	0936			45	2000	1780		0.02	2K			
750919	0937			50	2000			0.08	2K			1.0K
750920	0930			1	2000	10K		0.02	3			
750920	0938			31	2000	31		0.02	3			
750920	0939			36	2000				4			
750920	0941			41	2000	2160		0.02	2K			
750920	0943			55	2000	4130		0.07	2K			1.0K
750925	1700			1	2000				2K			
750925	1713			57	2000			0.02	2K			
751008	1105			1	13			0.04		0.80		
751008	1107			6	13					1.73		
751008	1108			11	13					1.20		
751008	1113			36	13			0.04				

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13A VEASEY CR AT CONFLUENCE STROUD C CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750416	1745			1	2000	18.0	32	50	32	7.8	1.4	6.9
750416	1746			3	2000	15.0				6.8		
750416	1747			8	2000	14.8				6.4		
750416	1748			13	2000	14.0				2.8		
750416	1749			18	2000	13.8				[illegible]		
750416	1750			23	2000	13.5				0.0		
750416	1751			28	2000	12.5				0.0		
750416	1752			33	2000	12.8	68	280	100	0.2	17.2	6.9
750417	0935			3	2000	16.5	31	60	33	8.0	0.8	6.7
750417	0936			8	2000	14.5				6.8		
750417	0937			13	2000	14.0				5.0		
750417	0938			18	2000	13.5				1.3		
750417	0939			23	2000	13.3				0.1		
750417	0940			28	2000	13.0				0.0		
750417	0941			33	2000	12.0	73	70	73	0.0	0.5	6.6
750418	0840			1	2000	15.3	30	45	32	7.0	0.6	6.9
750418	0841			6	2000	15.0				6.4		
750418	0842			11	2000	14.3				5.5		
750418	0843			16	2000	14.0				3.4		
750418	0844			21	2000	13.5				1.0		
750418	0845			26	2000	13.0				6.3		
750418	0846			31	2000	12.5				0.1		
750418	0847			34	2000	12.0	30	45	32	0.4	0.8	6.5

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L
750416	1745			1	2000	13	0.03	0.10	0.04	2.7	10
750416	1752			33	2000	55	1.33	0.01	0.12	10.3	40
750417	0935			3	2000	16	0.03	0.05	0.03	2.7	10
750417	0941			33	2000	41	0.81	0.04	0.07	6.8	22
750418	0840			1	2000	14	0.05	0.08	0.02	2.6	
750418	0847			34	2000	13	0.05	0.09	0.02	3.3	

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L
750416	1745			1	2000	1250	340	10K	54	46	8
750416	1745			33			17280				
750416	1752			33	2000	36800			164	74	90
750417	0935			3	2000	1300	245	4K	96	95	1

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-13A VEASEY CR AT CONFLUENCE STROUD C CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L
750417	0935			33			13280				
750417	0941			33	2000	28400			172	98	74
750418	0840			1	2000	1200	225		44	40	4
750418	0847			34	2000	1100	225		46	41	5

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00945 SULFATE SO4-TOT MG/L	00077 TRANSP SECCHI INCHES	00745 SULFIDE TOTAL MG/L
750416	1745			1	2000	0.12	970	210	2K		
750416	1745			33				16960			
750416	1752			33	2000	1.57			2K		1.0K
750416	1755				2000					24	
750417	0935			3	2000	0.18	770		2K		
750417	0935			33				12480			
750417	0941			33	2000	0.82	27200		2K		1.0K
750418	0840			1	2000	0.20	385	200	2K		
750418	0840									24	
750418	0847			34	2000	0.32	495	200	2K		

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-14 CHATTAHOOCHEE R MO OF BRUSH CR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750415	1110			1	2000	13.0	59	35	45	8.9	1.2	6.5
750416	0950			1	2000	12.5	54	40	40	8.9	1.9	6.5
750417	1510			1	2000	15.0	35	25	38	8.4	1.0	6.9
750418	1350			1	2000	15.5	32	40	40	8.4	1.1	6.7
750418	1351			6	2000	15.0				8.2		
750626	1725			1	13	27.5				5.5		7.2
750626	1726			3	13	27.5				4.6		
750626	1727			6	13	27.5				4.5		
750626	1728			11	13	27.5				4.4		
750626	1729			17	13	26.0				4.2		6.6
750728	1420			1	13	27.0				5.5		8.1
750728	1421			6	13	25.5				4.8		
750728	1422			11	13	25.0				4.7		
750728	1423			15	13	25.0				4.6		
750908	1220			1	13	24.0				6.9		7.0
750908	1221			6	13	22.5				6.8		
750908	1222			11	13	22.0				6.7		
750908	1223			16	13	22.0				6.6		6.7
750908	1224			18	13	22.0				6.6		
750915	1515			1	2000	23.5	26	50	92	5.8	0.9	6.4
750915	1516			6	2000	23.0				5.2		
750915	1517			11	2000	23.0				5.1		
750915	1518			16	2000	23.0				5.1		
750915	1519			21	2000	23.0	26	50	86	5.1	0.7	6.5
750916	1230			1	2000	22.5	33	30	77	6.5		6.6
750916	1231			6	2000	22.0				6.3		
750916	1232			11	2000	22.0				6.4		
750916	1233			16	2000	22.0				6.3		
750916	1234			21	2000	21.8				6.1		
750917	1630			1	2000	23.5	26	40	81	6.2		6.7
750917	1631			6	2000	23.5				6.2		
750917	1632			11	2000	23.5				5.9		
750917	1633			16	2000	23.5				6.2		
750917	1634			21	2000	22.5				6.1		
750918	1045			1	2000	23.5	13	30	81	6.1		6.5
750918	1046			6	2000	23.5				6.1		
750918	1047			11	2000	23.5				6.0		
750918	1048			16	2000	23.5				6.0		
750918	1049			21	2000	23.5				6.0		
750919	1440			1	2000	22.6	40	30	72	5.3		6.4
750919	1441			6	2000	22.0				5.4		
750919	1442			11	2000	22.0				5.3		
750919	1443			16	2000	22.0				5.3		
0919	1444			21	2000	22.0				5.4		
19	1445			26	2000	22.0				5.4		

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-14 CHATTAHOOCHEE R MO OF BRUSH CR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
751007	1305			1	13	18.0				6.6		6.2
751007	1306			3	13	18.0				6.6		
751007	1307			6	13	18.0				6.6		
751007	1308			11	13	18.0				6.6		
751007	1309			16	13	18.0				6.6		
751007	1310			21	13	18.0				6.6		6.2
751112	1324			1	13	21.5				6.6		6.2
751112	1325			3	13	21.5				6.6		
751112	1326			6	13	21.5				6.6		
751112	1327			11	13	21.5				6.5		
751112	1328			15	13	21.5				6.5		

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L
750415	1110			1	2000	19	0.05	0.31	0.18	5.0	11	2100
750416	0950			1	2000	13	0.03	0.31	0.17	3.4	11	3025
750417	1510			1	2000	16	0.03	0.32	0.13	1.2		1150
750418	1350			1	2000	12	0.04	0.35	0.13	1.5		1337
750908	1220			1	13		0.04	0.53	0.22			
750915	1515			1	2000	20	0.19	0.78	0.22	3.3		760
750915	1519			21	2000	19	0.18	0.78	0.25	2.9		1025
750916	1230			1	2000	18	0.10	0.70	0.18	2.9	16	842
750917	1630			1	2000	22	0.19	0.98	0.24	2.6	18	1000
750918	1045			1	2000	21	0.26	1.25	0.25	2.3	16	864
750919	1440			1	2000	14	0.17	0.83	0.26	4.8	15	1242

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750415	1110			1	2000	120	2300	164	48	116	0.18	130
750416	0950			1	2000	185	5000	122	48	74	0.34	145
750417	1510			1	2000	100	2750	90	15	75	0.10	100
750418	1350			1	2000	117	800	74	37	42	0.21	160
750626	1725			1	13		930					
750728	1420			1	13		430					
750908	1220			1	13		7500					
750915	1515			1	2000	140	140				0.42	202
750915	1519			21	2000	147					0.45	
750916	1230			1	2000	143	110	76	61	15	0.35	132
750917	1630			1	2000	132	170	48	14	34	0.42	446

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-14 CHATTAHOOCHEE R MO OF BRUSH CR CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L
750918	1045			1	2000	104	110	60	49	11	0.73	132
750919	1440			1	2000	159	1020	108	86	22	0.39	89

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01056 MANGNESE MN,DISS UG/L	00020 AIR TEMP CENT	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	32209 CHLRPHYL A UG/L	00077 TRANSP SECCHI INCHES
750415	1110			1	2000	15		0.03	2K		
750415	1110										12
750416	0950			1	2000	15		0.04	2K		
750416	0950										6
750417	1510			1	2000	10K			2K		
750417	1510										12
750418	1350			1	2000	10K			2K		
750418	1350										12
750908	1220			1	13			0.06		0.75	
750908	1221			6	13					0.54	
750908	1222			11	13					0.68	
750915	1515			1	2000	110		0.13			
750916	1230			1	2000	115		0.10	2K		
750917	1630			1	2000	114		0.12	5		
750918	1045			1	2000	87		0.17	4		
750919	1440			1	2000	112		0.11	4		
751007	1305			1	13		23.8			1.11	
751007	1307			6	13					0.23	
751007	1308			11	13					0.47	
751112	1324			1	13					0.71	
751112	1326			6	13					0,34	
751112	1327			11	13					0.80	

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-15 YELLOW JACKET CR AT HW 219 CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750414	1215			1	2000	15.0	25	40	45	10.6	2.1
750415	1000			1	2000	12.0	82	50	29	9.0	1.8
750416	1010			1	2000	12.0	83	35	27	10.2	1.3
750417	1325			1	2000	16.0	57	50	33	7.7	1.4
750418	1205			1	2000	16.0	35	45	37	7.5	1.2
750915	0850			1	2000	23.0	6	35	72	5.2	2.3
750916	0910			1	2000	24.0	4K	15	65	4.6	
750917	0845			1	2000	24.0	7	30	65	4.1	
750918	0845			1	2000	24.5	5	30	65	3.6	
750919	1415			1	2000	27.5	4K	30	76	5.0	
750925	1130			1	13	22.3				4.1	
750925	1131			3	13	22.3				3.9	
750925	1132			6	13	22.3				3.9	
750925	1133			11	13	22.3				3.9	
750925	1134			16	13	22.3				3.9	
750925	1135			21	13	22.3				3.8	

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L
750414	1215			1	2000	6.7	18	0.01K	0.09	0.02	1.7
750415	1000			1	2000	6.4	13	0.02	0.07	0.03	4.1
750416	1010			1	2000	6.5	13	0.05	0.10	0.04	5.1
750417	1325			1	2000	6.4	20	0.03	0.12	0.04	1.8
750418	1205			1	2000	6.5	15	0.01	0.10	0.03	3.0
750915	0850			1	2000	6.6	24	0.01K	0.01K	0.02	5.1
750916	0910			1	2000	6.5	26	0.09	0.01K	0.02	4.0
750917	0845			1	2000	6.4	26	0.06	0.01K	0.03	2.9
750918	0845			1	2000	6.5	28	0.09	0.02	0.03	2.9
750919	1415			1	2000	6.7	27	0.07	0.05	0.02	4.6

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L
750414	1215			1	2000	13	1000	420	60	54	48
750415	1000			1	2000	8	3100	235	5600	124	72
750416	1010			1	2000	8	2900	175	1100	96	50
750417	1325			1	2000	8	1900	165	70	60	40
750418	1205			1	2000		1400	200	25	44	37
750915	0850			1	2000	23	440	373	5K	86	74
750916	0910			1	2000	22	649	515	2K	76	71

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-15 YELLOW JACKET CR AT HW 219 CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L
750917	0845			1	2000	22	815	661	2K	40	40
750918	0845			1	2000	22	849	650	2K	26	20
750919	1415			1	2000	22	545	528	2K	92	78

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L
750414	1215			1	2000	6	0.10	560	415	0.02	2K
750415	1000			1	2000	52	0.18				2K
750416	1010			1	2000	46	0.16	495	155		2K
750417	1325			1	2000	20	0.26	415	130		2K
750418	1205			1	2000	7	0.16	225	170		2K
750915	0850			1	2000	12	0.30	53	147	0.01	2K
750916	0910			1	2000	5	0.21	110	332	0.02	2K
750917	0845			1	2000	1K	0.26	202	443	0.02	2K
750918	0845			1	2000	6	0.37	148	471	0.02	2K
750919	1415			1	2000	14	0.35	128	397	0.02	2K

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-16 WEHADKEE CR NR BELOW GUS CREEK CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750414	2030			1	2000	13.0	67	40	22	11.7	2.1	6.8
750415	1300			1	2000	12.0	55	40	26	9.4	2.0	6.3
750416	1330			1	2000	13.5	34	35	32	11.5	0.8	6.9
750417	0930			1	2000	12.0	32	40	35	9.2	1.1	6.5
750418	0935			1	2000	14.0	29	40	35	8.8	0.7	6.6
750915	1315			1	2000	21.5	20	60	56	5.4	1.4	6.6
750916	1215			1	2000	22.0	21	30	59	6.2		6.7
750917	1115			1	2000	21.5	16	60	59	6.4		6.6
750918	1230			1	2000	22.0	21	60	54	5.9		6.6
750919	1055			1	2000	23.0	16	60	55	5.7		6.6

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L
750414	2030			1	2000	11	0.01K	0.08	0.03	5.7	6
750415	1300			1	2000	13	0.02	0.11	0.04	3.5	6
750416	1330			1	2000	15	0.02	0.13	0.03	2.7	8
750417	0930			1	2000	18	0.02	0.13		1.5	8
750418	0935			1	2000	17	0.01	0.15	0.03	1.8	
750915	1315			1	2000	24	0.04	0.10	0.03	2.6	15
750916	1215			1	2000	24	0.03	0.08	0.03	3.3	15
750917	1115			1	2000	24	0.03	0.13	0.04	2.9	14
750918	1230			1	2000	26	0.04	0.09	0.05	4.3	14
750919	1055			1	2000	19	0.04	0.12	0.04	4.3	13

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L
750414	2030			1	2000	2475	285	5600	148	80	68
750415	1300			1	2000	1900	190	1400	68	20	48
750416	1330			1	2000	1600	190	100	72	48	24
750417	0930			1	2000	1650	200	170	66	46	20
750418	0935			1	2000	1650	185	85	64	46	18
750915	1315			1	2000	2050	564	20	94	80	14
750916	1215			1	2000	2100	493	6	80	67	13
750917	1115			1	2000	2300	442	10	68	66	2
750918	1230			1	2000	2180	441	500	54	38	16
750919	1055			1	2000	2200	444	345	104	89	15

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-16 WEHADKEE CR NR BELOW GUS CREEK CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L	00745 SULFIDE TOTAL MG/L
750414	2030			1	2000	0.18	370	190	0.02	2K	
750415	1300			1	2000	0.16				2K	
750416	1330			1	2000	0.12				2K	
750417	0930			1	2000	0.10	255	105		2K	1.0K
750418	0935			1	2000	0.10	240	105		2K	
750915	1315			1	2000	0.10	249	465	0.02	2K	
750916	1215			1	2000	0.21	404	398	0.02	2K	
750917	1115			1	2000	0.10	348	348	0.03	2K	
750918	1230			1	2000	0.22	320	400	0.02	2K	
750919	1055			1	2000	0.26	278	379	0.02	2K	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-WPP CHATTAHOOCHEE R AT LANETT CTY WI CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00400 PH SU	01045 IRON FE,TOT UG/L
750914	1130	(C)750914	1229		2000	26.8			58	6.0	6.8	
750914	1230	(C)750914	1329		2000	27.0			34	6.2	6.9	
750914	1330	(C)750914	1429		2000	27.0			53	6.3	6.9	
750914	1430	(C)750914	1529		2000	27.2			53	6.4	6.9	
750914	1530	(C)750914	1629		2000	27.0				6.4	6.9	
750914	1630	(C)750914	1729		2000	27.0				6.3	6.9	
750914	1730	(C)750914	1829		2000	26.8			50	6.2	6.8	
750914	1830	(C)750914	1929		2000	26.6			53	6.2	6.8	
750914	1930	(C)750914	2029		2000	26.2			54	5.9	6.8	
750914	2030	(C)750914	2129		2000	26.2			55	5.7	6.8	
750914	2130	(C)750914	2229		2000	26.0			55	5.6	6.8	
750914	2230	(C)750914	2329		2000	25.8			56	5.5	6.8	
750914	2330	(C)750915	0029		2000	25.8			56	5.4	6.8	
750915	0030	(C)750915	0129		2000	25.4			56	5.3	6.7	
750915	0130	(C)750915	0229		2000	25.4			55	5.3	6.7	
750915	0230	(C)750915	0329		2000	25.4			56	5.2	6.7	
750915	0330	(C)750915	0429		2000	25.4			56	5.2	6.7	
750915	0430	(C)750915	0529		2000	25.4			56	5.3	6.7	
750915	0530	(C)750915	0629		2000	25.2			57	5.3	6.7	
750915	0630	(C)750915	0729		2000	25.0			57	5.2	6.7	
750915	0730	(C)750915	0829		2000	25.0			57	5.4	6.7	
750915	0830	(C)750915	0929		2000	25.0			57	5.4	6.7	
750915	0930	(C)750915	1029		2000	25.0			57	5.5	6.7	
750915	1030	(C)750915	1129		2000	25.0			57	5.6	6.7	
750915	1130	(C)750915	1229		2000	25.0			57	5.8	6.7	
750915	1230	(C)750915	1329		2000	25.0			58	5.8	6.8	
750915	1330	(C)750915	1429		2000	25.0			58	5.9	6.8	
750915	1430	(C)750915	1529		2000	25.4			57	6.0	6.7	
750915	1555			1	2000	26.0				3.8	6.4	1550
750915	1530	(C)750915	1629		2000	25.8			58	4.1	6.4	
750915	1630	(C)750915	1729		2000	26.0			57	4.1	6.5	
750915	1730	(C)750915	1829		2000	26.2			57	4.1	6.5	
750915	1830	(C)750915	1929		2000	26.2			58	4.0	6.5	
750915	1930	(C)750915	2029		2000	26.0			58	3.8	6.5	
750915	2030	(C)750915	2129		2000	26.0			59	3.7	6.5	
750915	2130	(C)750915	2229		2000	25.8			58	3.6	6.5	
750915	2230	(C)750915	2329		2000	25.2			58	3.8	6.5	
750915	2330	(C)750916	0029		2000	25.0			58	3.7	6.6	
750916	0030	(C)750916	0129		2000	25.0			58	3.6	6.6	
750916	0130	(C)750916	0229		2000	24.8			58	3.5	6.6	
750916	0230	(C)750916	0329		2000	24.8			58	3.9	6.6	
750916	0330	(C)750916	0429		2000	24.8			58	4.3	6.6	
750916	0430	(C)750916	0529		2000	24.8			59	4.7	6.7	
750916	0530	(C)750916	0629		2000	24.8			60	4.8	6.7	
750916	0630	(C)750916	0729		2000	24.8			60	4.8	6.7	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-WPP CHATTAHOOCHEE R AT LANETT CTY WI CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00400 PH SU	01045 IRON FE,TOT UG/L
750916	0730	(C)750916	0829		2000	24.6			60	4.8	6.7	
750916	0830	(C)750916	0929		2000	24.6			60	4.9	6.7	
750916	0930	(C)750916	1029		2000	24.6			60	5.0	6.7	
750916	1030	(C)750916	1129		2000	25.0			60	5.0	6.7	
750916	1130	(C)750916	1229		2000	25.2			61	5.3	6.7	
750916	1230	(C)750916	1329		2000	25.6			63	5.8	6.6	
750916	1405			1	2000	26.0				3.8	6.5	948
750916	1330	(C)750916	1429		2000	25.8			64	4.0	6.4	
750916	1430	(C)750916	1529		2000	25.8			64	3.9	6.5	
750916	1530	(C)750916	1629		2000	25.8			63	4.0	6.5	
750916	1630	(C)750916	1729		2000	25.8			63	4.0	6.4	
750916	1730	(C)750916	1829		2000	26.0			63	4.1	6.4	
750916	1830	(C)750916	1929		2000	25.8			63	3.8	6.4	
750916	1930	(C)750916	2029		2000	25.8			63	3.7	6.4	
750916	2030	(C)750916	2129		2000	25.8			63	3.6	6.5	
750916	2130	(C)750916	2229		2000	25.4			64	3.6	6.6	
750916	2230	(C)750916	2329		2000	25.0			64	3.7	6.6	
750916	2330	(C)750917	0029		2000	24.8			63	3.5	6.5	
750917	0030	(C)750917	0129		2000	24.8			59	3.5	6.5	
750917	0130	(C)750917	0229		2000	24.8			56	3.4	6.5	
750917	0230	(C)750917	0329		2000	24.6			56	3.8	6.6	
750917	0330	(C)750917	0429		2000	24.6			56	4.3	6.6	
750917	0430	(C)750917	0529		2000	24.6			56	4.2	6.6	
750917	0530	(C)750917	0629		2000	24.6			56	3.9	6.5	
750917	0630	(C)750917	0729		2000	24.4			57	4.2	6.5	
750917	0730	(C)750917	0829		2000	24.4			57	4.4	6.6	
750917	0830	(C)750917	0929		2000	24.4			58	4.7	6.6	
750917	0930	(C)750917	1029		2000	24.4			58	5.0	6.6	
750917	1030	(C)750917	1129		2000	24.6			58	5.1	6.7	
750917	1130	(C)750917	1229		2000	24.6			58	5.2	6.7	
750917	1325			1	2000	25.0				5.6	6.4	1000
750917	1230	(C)750917	1329		2000	24.6			58	5.2	6.7	
750917	1330	(C)750917	1429		2000	24.6			59	4.4	6.7	
750917	1430	(C)750917	1529		2000	24.8			63	5.3	6.6	
750917	1530	(C)750917	1629		2000	24.8			66	3.8	6.4	
750917	1630	(C)750917	1729		2000	24.8			67	3.5	6.4	
750917	1730	(C)750917	1829		2000	24.8			66	4.0	6.6	
750917	1830	(C)750917	1929		2000	24.8			65	5.2	6.6	
750917	1930	(C)750917	2029		2000	25.0			64	5.9	6.6	
750917	2030	(C)750917	2129		2000	25.2			68	3.2	6.3	
750917	2130	(C)750917	2229		2000	25.0			70	2.4	6.3	
750917	2230	(C)750917	2329		2000	25.0			69	2.5	6.3	
750917	2330	(C)750918	0029		2000	24.4			67	2.7	6.3	
750918	0030	(C)750918	0129		2000	24.2			66	2.6	6.4	
750918	0130	(C)750918	0229		2000	24.2			66	2.7	6.4	

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-WPP CHATTAHOOCHEE R AT LANETT CTY WI CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00400 PH SU	01045 IRON FE,TOT UG/L
750918	0230	(C)750918	0329		2000	24.2			65	3.4	6.5	
750918	0330	(C)750918	0429		2000	24.2			63	4.1	6.6	
750918	0430	(C)750918	0529		2000	24.0			58	4.7	6.6	
750918	0530	(C)750918	0629		2000	24.0			60	4.7	6.6	
750918	0630	(C)750918	0729		2000	24.2			63	4.7	6.6	
750918	0730	(C)750918	0829		2000	24.2			64	4.6	6.6	
750918	0830	(C)750918	0929		2000	24.2			64	5.6	6.6	
750918	0930	(C)750918	1029		2000	24.8			66	4.2	6.4	
750918	1030	(C)750918	1129		2000	24.8			68	2.6	6.2	
750918	1130	(C)750918	1229		2000	24.8			68	2.5	6.3	
750918	1230	(C)750918	1329		2000	24.8			68	2.5	6.3	
750918	1420			1	2000	25.0				2.5	6.4	1385
750918	1330	(C)750918	1429		2000	25.0			68	2.5	6.3	
750918	1430	(C)750918	1529		2000	25.0			67	2.7	6.3	
750918	1530	(C)750918	1629		2000	25.0			67	2.9	6.3	
750918	1630	(C)750918	1729		2000	25.0			67	3.0	6.3	
750918	1730	(C)750918	1829		2000	25.0			67	3.1	6.3	
750918	1830	(C)750918	1929		2000	25.0			66	3.1	6.4	
750918	1930	(C)750918	2029		2000	25.0			67	3.0	6.3	
750918	2030	(C)750918	2129		2000	24.8			67	2.9	6.3	
750918	2130	(C)750918	2229		2000	24.8			68	2.6	6.3	
750918	2230	(C)750918	2329		2000	24.6			68	2.5	6.3	
750918	2330	(C)750919	0029		2000	24.2			67	2.8	6.4	
750919	0030	(C)750919	0129		2000	24.0			66	2.8	6.4	
750919	0130	(C)750919	0229		2000	24.0			66	2.9	6.4	
750919	0230	(C)750919	0329		2000	23.8			66	3.2	6.4	
750919	0330	(C)750919	0429		2000	23.8			65	3.7	6.5	
750919	0430	(C)750919	0529		2000	23.8			65	4.2	6.6	
750919	0530	(C)750919	0629		2000	23.8			61	4.6	6.6	
750919	0630	(C)750919	0729		2000	23.8			64	4.8	6.6	
750919	0820			1	2000	23.5				4.9	6.7	760
750915	1555	(C)750919	0820		2000		2	5	62		6.5	940
750919	0730	(C)750919	0829		2000	23.8			64	4.9	6.6	

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01055 MANGNESE MN UG/L	00515 RESIDUE DISS-105 C MG/L	00940 CHLORIDE CL MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00945 SULFATE SO4-TOT MG/L
750915	1555			1	2000	547			639	469	
750916	1405			1	2000	380			420	380	
750917	1325			1	2000	347			450	290	
750918	1420			1	2000	654			605	623	
750919	0820			1	2000	287			172	302	
750915	1555	(C)750919	0820		2000	450	57	10K			25K

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-WPP CHATTAHOOCHEE R AT LANETT CTY WI CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00620 NO3-N TOTAL MG/L	00720 CYANIDE CN-TOT MG/L	00951 FLUORIDE F,TOTAL MG/L	01002 ARSENIC AS,TOT UG/L	01007 BARIUM BA,TOT UG/L	01027 CADMIUM CD,TOT UG/L
750915	1555	(C)750919	0820		2000	1K	20K	0.1K	5K	120J	2K

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01034 CHROMIUM CR,TOT UG/L	01042 COPPER CU,TOT UG/L	01051 LEAD PB,TOT UG/L	01077 SILVER AG,TOT UG/L	01092 ZINC ZN,TOT UG/L	01147 SELENIUM SE,TOT UG/L
750915	1555	(C)750919	0820		2000	5K	20K	5K	30K	20K	5K

DATE	TIME	DATE	TIME	38260 MBAS MG/L	39330 ALDRIN WHL SMPL UG/L	39350 CHLRDANE WHL SMPL UG/L	39370 DDT WHL SMPL UG/L	39380 DIELDRIN WHL SMPL UG/L	39390 ENDRIN WHL SMPL UG/L	39400 TOXPHENE WHL SMPL UG/L
750915	1555	(C)750919	0820	0.3K	0.001K	0.01K	0.005K	0.002	0.002K	0.05K

DATE	TIME	DATE	TIME	39410 HCHLR WHL SMPL UG/L	39420 HCHLR-EP WHL SMPL UG/L	39480 MTHXYCLR WHL SMPL UG/L	39730 2,4-D WHL SMPL UG/L	39760 SILVEX WHL SMPL UG/L	39782 LINDANE WHL SMPL UG/L	71900 MERCURY HG,TOTAL UG/L
750915	1555	(C)750919	0820	0.001K	0.001K	0.01K	0.01K	0.015	0.001K	3.0

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-LG CHATTAHOOCHEE R ABV LAGRANGE WTP CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750414	1000			1	2000	13.5	22	30	44	10.1	1.2	6.7
750415	0830			1	2000	13.0	33	40	40	9.4	0.4	6.5
750416	0915			1	2000	12.0	38	20	43	7.9	1.1	6.9
750417	1415			1	2000	14.0	35	40	45	8.5	3.5	6.5
750418	1250			1	2000	15.0	23	40	43	8.4	2.0	6.5
750914	1430	(C)750914	1529		2000	26.8			67			7.5
750914	1530	(C)750914	1629		2000	26.6			67			7.3
750914	1703			1	2000	27.0				8.9		
750914	1704			5	2000	27.0				8.8		
750914	1705			10	2000	26.9				8.3		
750914	1706			12	2000	26.9				8.1		
750914	1707			14	2000	26.8				7.6		
750914	1708			16	2000	26.6				7.0		
750914	1709			18	2000	26.5				5.2		
750914	1710			20	2000	26.4				4.0		
750914	1711			22	2000	26.0				1.4		
750914	1712			24	2000	25.7				1.5		
750914	1713			26	2000	25.1				1.2		
750914	1714			28	2000	24.9				1.0		
750914	1630	(C)750914	1729		2000	26.6			67			7.1
750914	1730	(C)750914	1829		2000	26.6			67			6.9
750914	1830	(C)750914	1929		2000	26.6			67			6.8
750914	1930	(C)750914	2029		2000	26.4			67			6.8
750914	2030	(C)750914	2129		2000	26.3			67			6.8
750914	2130	(C)750914	2229		2000	26.2			67			6.8
750914	2230	(C)750914	2329		2000	26.2			67			6.7
750914	2330	(C)750915	0029		2000	26.2			67			6.7
750915	0030	(C)750915	0129		2000	26.2			67			6.7
750915	0130	(C)750915	0229		2000	26.0			67			6.7
750915	0230	(C)750915	0329		2000	26.0			67			6.7
750915	0330	(C)750915	0429		2000	25.8			66			6.7
750915	0430	(C)750915	0529		2000	25.8			66			6.7
750915	0530	(C)750915	0629		2000	25.8			66			6.7
750915	0630	(C)750915	0729		2000	25.8			66			6.7
750915	0730	(C)750915	0829		2000	25.8			66			6.7
750915	0830	(C)750915	0929		2000	25.8			66			6.7
750915	0930	(C)750915	1029		2000	25.8			66			6.7
750915	1030	(C)750915	1129		2000	25.8			66			6.7
750915	1130	(C)750915	1229		2000	25.8			66			6.7
750915	1230	(C)750915	1329		2000	25.8			66			6.7
750915	1330	(C)750915	1429		2000	25.8			66			6.7
750915	1430	(C)750915	1529		2000	25.9			66			6.8
750915	1530	(C)750915	1629		2000	25.8			66			6.8
750915	1630	(C)750915	1729		2000	25.8			66			7.8
750915	1730	(C)750915	1829		2000	25.8			66			7.2

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-LG CHATTAHOOCHEE R ABV LAGRANGE WTP CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750915	1830	(C)750915	1929		2000	25.8			66			6.7
750915	1930	(C)750915	2029		2000	25.6			66			6.7
750915	2030	(C)750915	2129		2000	25.5			66			6.4
750915	2130	(C)750915	2229		2000	25.5			66			6.3
750915	2230	(C)750915	2329		2000	25.5			66			6.3
750915	2330	(C)750916	0029		2000	25.3			66			6.4
750916	0030	(C)750916	0129		2000	25.4			66			6.4
750916	0130	(C)750916	0229		2000	25.5			66			6.3
750916	0230	(C)750916	0329		2000	25.3			66			6.4
750916	0330	(C)750916	0429		2000	25.3			66			6.3
750916	0430	(C)750916	0529		2000	25.1			66			6.2
750916	0530	(C)750916	0629		2000	24.9			66			6.2
750916	0630	(C)750916	0729		2000	25.0			66			6.1
750916	0730	(C)750916	0829		2000	24.9			66			6.1
750916	0830	(C)750916	0929		2000	24.9			66			6.0
750916	0930	(C)750916	1029		2000	24.9			66			6.2
750916	1030	(C)750916	1129		2000	25.1			66			6.2
750916	1130	(C)750916	1229		2000	25.1			66			6.3
750916	1230	(C)750916	1329		2000	25.1			66			6.5
750916	1330	(C)750916	1429		2000	24.9			66			6.7
750916	1430	(C)750916	1529		2000	25.2			66			6.5
750916	1530	(C)750916	1629		2000	25.3			66			6.7
750916	1630	(C)750916	1729		2000	25.3			66			6.9
750916	1730	(C)750916	1829		2000	25.3			66			7.0
750916	1830	(C)750916	1929		2000	25.3			67			7.2
750916	1930	(C)750916	2029		2000	25.3			66			6.9
750916	2030	(C)750916	2129		2000	24.9			66			6.3
750916	2130	(C)750916	2229		2000	24.9			67			6.0
750916	2230	(C)750916	2329		2000	24.9			67			5.9
750916	2330	(C)750917	0029		2000	24.9			67			6.0
750917	0030	(C)750917	0129		2000	24.9			67			5.9
750917	0130	(C)750917	0229		2000	24.9			67			6.0
750917	0230	(C)750917	0329		2000	24.9			67			5.9
750917	0330	(C)750917	0429		2000	24.9			67			5.8
750917	0430	(C)750917	0529		2000	24.9			67			5.7
750917	0530	(C)750917	0629		2000	24.8			67			5.7
750917	0630	(C)750917	0729		2000	24.9			67			5.7
750917	0730	(C)750917	0829		2000	24.5			67			6.5
750917	0830	(C)750917	0929		2000	24.9			67			6.5
750917	0930	(C)750917	1029		2000	24.8			67			6.5
750917	1030	(C)750917	1129		2000	24.8			67			6.5
750917	1130	(C)750917	1229		2000	24.6			67			6.5
750917	1230	(C)750917	1329		2000	24.6			67			6.5
750917	1330	(C)750917	1429		2000	24.6			67			6.5
750917	1430	(C)750917	1529		2000	24.6			67			6.5

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WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-LG CHATTAHOOCHEE R ABV LAGRANGE WTP CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750917	1530	(C)750917	1629		2000	24.6			67			6.6
750917	1630	(C)750917	1729		2000	24.6			67			6.6
750917	1730	(C)750917	1829		2000	24.6			67			6.6
750917	1830	(C)750917	1929		2000	24.6			67			6.5
750917	1930	(C)750917	2029		2000	24.6			67			6.5
750917	2030	(C)750917	2129		2000	24.6			67			6.5
750917	2130	(C)750917	2229		2000	24.6			67			6.4
750917	2230	(C)750917	2329		2000	24.6			67			6.4
750917	2330	(C)750918	0029		2000	24.6			67			6.4
750918	0030	(C)750918	0129		2000	24.5			67			6.4
750918	0130	(C)750918	0229		2000	24.4			67			6.4
750918	0230	(C)750918	0329		2000	24.4			67			6.4
750918	0330	(C)750918	0429		2000	24.4			67			6.4
750918	0430	(C)750918	0529		2000	24.4			67			6.4
750918	0530	(C)750918	0629		2000	24.4			67			6.4
750918	0630	(C)750918	0729		2000	24.4			68			6.4
750918	0730	(C)750918	0829		2000	24.4			67			6.4
750918	0830	(C)750918	0929		2000	24.4			67			6.4
750918	0930	(C)750918	1029		2000	24.4			67			6.4
750918	1030	(C)750918	1129		2000	24.4			68			6.5
750918	1130	(C)750918	1229		2000	24.4			68			6.5
750918	1230	(C)750918	1329		2000	24.5			68			6.6
750918	1330	(C)750918	1429		2000	24.8			69			6.7
750918	1430	(C)750918	1529		2000	25.3			69			6.7
750918	1530	(C)750918	1629		2000	26.0			70			6.7
750918	1630	(C)750918	1729		2000	26.0			70			6.8
750918	1730	(C)750918	1829		2000	26.0			70			6.8
750918	1830	(C)750918	1929		2000	25.8			70			6.8
750918	1930	(C)750918	2029		2000	25.8			70			6.8
750918	2030	(C)750918	2129		2000	25.8			70			6.8
750918	2130	(C)750918	2229		2000	25.7			70			6.7
750918	2230	(C)750918	2329		2000	25.5			69			6.7
750918	2330	(C)750919	0029		2000	25.2			69			6.6
750919	0030	(C)750919	0129		2000	24.9			69			6.6
750919	0130	(C)750919	0229		2000	24.9			70			6.6
750919	0230	(C)750919	0329		2000	24.9			69			6.5
750919	0330	(C)750919	0429		2000	24.9			69			6.5
750919	0430	(C)750919	0529		2000	24.5			69			6.5
750919	0530	(C)750919	0629		2000	24.2			69			6.4
750919	0630	(C)750919	0729		2000	24.2			69			6.3
750919	0730	(C)750919	0829		2000	24.2			68			6.3
750919	0830	(C)750919	0929		2000	24.0				3.9		
750919	0930	(C)750919	1029	1	13				68			6.4
750919	1100				2000	24.0						
750919	1030	(C)750919	1129									

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-LG CHATTAHOOCHEE R ABV LAGRANGE WTP CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750919	1200			1	13							
750919	1130	(C)750919	1229		2000	24.0				4.2		
750916	1415	(C)750919	1230		2000				68			
750919	1300			1	13		1	8	67			6.4
750919	1230	(C)750919	1329		2000	24.4				4.8		6.1
750919	1400			1	13				68			
750919	1330	(C)750919	1429		2000	24.8				4.8		6.2
750919	1500			1	13				68			
750919	1430	(C)750919	1529		2000	24.9				5.4		6.5
750919	1600			1	13				69			
750919	1530	(C)750919	1629		2000	25.1				7.1		6.5
750919	1700			1	13				70			
750919	1630	(C)750919	1729		2000	26.3				7.3		6.6
750919	1800			1	13				70			
750919	1900			1	13					8.8		6.7
750919	2000			1	13					7.9		
750919	2100			1	13					9.3		
750919	2200			1	13					9.7		
750919	2300			1	13					8.2		
750919	2400			1	13					8.2		
750920	0100			1	13					7.1		
750920	0200			1	13					8.0		
750920	0300			1	13					8.3		
750920	0400			1	13					8.1		
750920	0500			1	13					7.5		
750920	0600			1	13					6.4		
750920	0700			1	13					5.9		
750920	0800			1	13					5.7		
750920	0900			1	13					5.3		
750920	1000			1	13					5.4		
750920	1100			1	13					5.8		
750920	1200			1	13					6.3		
750920	1300			1	13					6.3		
750920	1400			1	13					7.0		
750920	1500			1	13					7.1		
750920	1600			1	13					9.5		
750920	1700			1	13					10.5		
750920	1800			1	13					11.5		
750920	1900			1	13					12.0L		
750920	2000			1	13					12.0L		
750920	2100			1	13					12.0L		
750920	2200			1	13					12.0L		
750920	2300			1	13					12.0L		
750920	2400			1	13					12.0L		
750921	0100			1	13					11.2		
										11.2		

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-LG CHATTAHOOCHEE R ABV LAGRANGE WTP CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L	00400 PH SU
750921	0200			1	13					10.8		
750921	0300			1	13					10.1		
750921	0400			1	13					9.6		
750921	0500			1	13					8.9		
750921	0600			1	13					8.5		
750921	0700			1	13					7.7		
750921	0800			1	13					8.1		
750921	0830			1	13					8.0		

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L	00900 TOT HARD CACO3 MG/L
750414	1000			1	2000	17	0.04	0.35	0.10	1.1	9
750415	0830			1	2000	16	0.04	0.28	0.08	2.3	6
750416	0915			1	2000	16	0.07	0.32	0.09	2.7	11
750417	1415			1	2000	17	0.09	0.33	0.09	1.8	11
750418	1250			1	2000	13	0.05	0.32	0.09	2.3	

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L	00530 RESIDUE TOT NFLT MG/L
750414	1000			1	2000	700	90	550	78	68	12
750415	0830			1	2000	950	90	1250	94	73	21
750416	0915			1	2000	1100	65	1450	106	80	26
750417	1415			1	2000	950	85	1100	61	44	17
750418	1250			1	2000	950	75	700	36	24	12
750916	1415	(C)750919	1230		2000	260	80			63	

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00625 TOT KJEL N MG/L	00940 CHLORIDE CL MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L
750414	1000			1	2000	0.18		233		0.09	2K
750415	0830			1	2000	0.18					2K
750416	0915			1	2000	0.23					2K
750417	1415			1	2000	0.60		190	65		2K
750418	1250			1	2000	0.26		160			2K
750916	1415	(C)750919	1230		2000		10K				25K

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-LG CHATTAHOOCHEE R ABV LAGRANGE WTP CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00620 NO3-N TOTAL MG/L	00720 CYANIDE CN-TOT MG/L	00951 FLUORIDE F,TOTAL MG/L	01002 ARSENIC AS,TOT UG/L	01007 BARIUM BA,TOT UG/L	01027 CADMIUM CD,TOT UG/L
750916	1415	(C)750919	1230		2000	2	20K	0.1	5K	200K	2K

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	01034 CHROMIUM CR,TOT UG/L	01042 COPPER CU,TOT UG/L	01051 LEAD PB,TOT UG/L	01077 SILVER AG,TOT UG/L	01092 ZINC ZN,TOT UG/L	01147 SELENIUM SE,TOT UG/L
750916	1415	(C)750919	1230		2000	5K	20K	15	30K	20	5K

DATE	TIME	DATE	TIME	38260 MBAS MG/L	39330 ALDRIN WHL SMPL UG/L	39350 CHLRDANE WHL SMPL UG/L	39370 DDT WHL SMPL UG/L	39380 DIELDRIN WHL SMPL UG/L	39390 ENDRIN WHL SMPL UG/L	39400 TOXPHENE WHL SMPL UG/L
750916	1415	(C)750919	1230	0.3K	0.001K	0.01K	0.005K	0.004	0.002K	0.05K

DATE	TIME	DATE	TIME	39410 HCHLR WHL SMPL UG/L	39420 HCHLR-EP WHL SMPL UG/L	39480 MTHXYCLR WHL SMPL UG/L	39730 2,4-D WHL SMPL UG/L	39760 SILVEX WHL SMPL UG/L	39782 LINDANE WHL SMPL UG/L	71900 MERCURY HG,TOTAL UG/L
750916	1415	(C)750919	1230	0.001K	0.001K	0.01K	0.01K	0.009	0.001K	2.5

APPENDIX C-2

WATER QUALITY DATA-POST IMPOUNDMENT STUDY
WEST POINT LAKE, GEORGIA

STATION - CH-DM CHATTAHOOCHEE R AT D-M MILLS CHATTAHOOCHEE

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00010 WATER TEMP CENT	00070 TURB JKSN JTU	00080 COLOR PT-CO UNITS	00095 CNDUCTVY AT 25C MICROMHO	00300 DO MG/L	00310 BOD 5 DAY MG/L
750414	1120			1	2000	14.0	20	40	42	10.1	1.8
750415	0915			1	2000	12.0	33	35	39	9.2	1.8
750416	0940			1	2000	12.0	42	15	43	9.8	1.2
750417	1445			1	2000	13.0	37	45	44	8.0	1.9
750418	1340			1	2000	14.0	20	30	42	7.3	2.1

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00400 PH SU	00410 T ALK CACO3 MG/L	00610 NH3-N TOTAL MG/L	00630 NO2&NO3 N-TOTAL MG/L	00665 PHOS-TOT MG/L P	00680 T ORG C C MG/L
750414	1120			1	2000	6.6	17	0.03	0.34	0.07	1.1
750415	0915			1	2000	6.6	15	0.04	0.27	0.08	2.3
750416	0940			1	2000	6.4	15	0.07	0.32	0.09	2.7
750417	1445			1	2000	6.4	16	0.08	0.33	0.09	1.8
750418	1340			1	2000	6.4	13	0.05	0.32	0.09	2.0

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00900 TOT HARD CACO3 MG/L	01045 IRON FE,TOT UG/L	01055 MANGNESE MN UG/L	31616 FEC COLI MFM-FCBR /100ML	00500 RESIDUE TOTAL MG/L	00515 RESIDUE DISS-105 C MG/L
750414	1120			1	2000	9	600	90	300	78	65
750415	0915			1	2000	8	1050	95	900	86	66
750416	0940			1	2000	11	1100	90	1800	120	96
750417	1445			1	2000	10	1050	80	1400	128	108
750418	1340			1	2000		775	75	900	50	38

DATE	TIME	DATE	TIME	00003 DEPTH FEET	00027 COLLECT AGENCY CODE	00530 RESIDUE TOT NFLT MG/L	00625 TOT KJEL N MG/L	01046 IRON FE,DISS UG/L	01056 MANGNESE MN,DISS UG/L	00666 PHOS-DIS MG/L P	00945 SULFATE SO4-TOT MG/L
750414	1120			1	2000	13	0.23			0.08	2K
750415	0915			1	2000	20	0.18				2K
750416	0940			1	2000	24	0.23				2K
750417	1445			1	2000	20	0.62	205	65		2K
750418	1340			1	2000	12	0.23	145			2K

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APPENDIX D

PROPOSED RESEARCH PROGRAM FOR WEST POINT LAKE

Upon review of the present research effort in West Point Lake by Auburn University and the past and present research efforts by their groups, particularly the Georgia Department of Environmental Protection and the USGS, it became apparent that some expansion of the limnological investigations by Auburn is necessary for the second year effort and also for several years thereafter. This recommended expansion includes

1. The addition of water quality stations in areas of the reservoir that are presently not being monitored by any investigator.

2. The expansion of the primary productivity investigations to obtain a better estimate of the productivity of the reservoir.

3. The addition of a limited number of water quality measurements at stations where fish samples are taken.

4. The addition of metal samples at all water quality stations.

In proposing this expansion careful consideration was given to filling apparent data gaps, minimizing the overlap between the investigative efforts of Auburn and other researchers in West Point, and accomodating as well as possible under funding and manpower constraints the data requirements of various water quality models particularly the EPAECO (Water Resources Engineers, Inc., 1975) and WQRRS models (Hydrologic Engineering Center, 1974) Although the research program in West Point is not set up to specifically utilize any water quality model, data requirements of the EPAECO and WQRRS

models have been taken into consideration in anticipation of future water quality application in West Point Lake.

It has become apparent, upon reviewing water quality station locations in West Point (Figure 8), that areal coverage needs to be increased in certain portions of the reservoir. It is recommended that three additional stations be added to the limnological sampling program: one in or below New River, one along the western boundary of Wehadkee Creek, and one in Maple Creek (Figure 8).

Both Auburn University and the Georgia Environmental Protection Department are measuring similar water quality variables at three stations - stations 2, 4, and 5 of Auburn. This apparent duplication can be justified due to the fact that both groups of investigators are not sampling at the same frequencies; thus, each provides a temporal expansion of the data base of the other.

It is also recommended that three additional primary productivity stations be established in West Point. Three stations presently exist; however, they are limited to the main channel and are located only in the upper reservoir and near the dam (Figure 9). Proposed new stations will be located at the mouth of Yellow Jacket Creek, at Wehadkee Creek, and just above Wehadkee Creek (Figure 9).

The investigators conducting the fisheries studies at Auburn do not presently measure any limnological parameters during their fish sampling. Their fish sampling stations do not necessarily coincide with stations where limnological variables are measured; therefore it is proposed that before fish sampling both temperature and oxygen profiles be run at each

Figure 8. Location of water quality stations on West Point Lake.

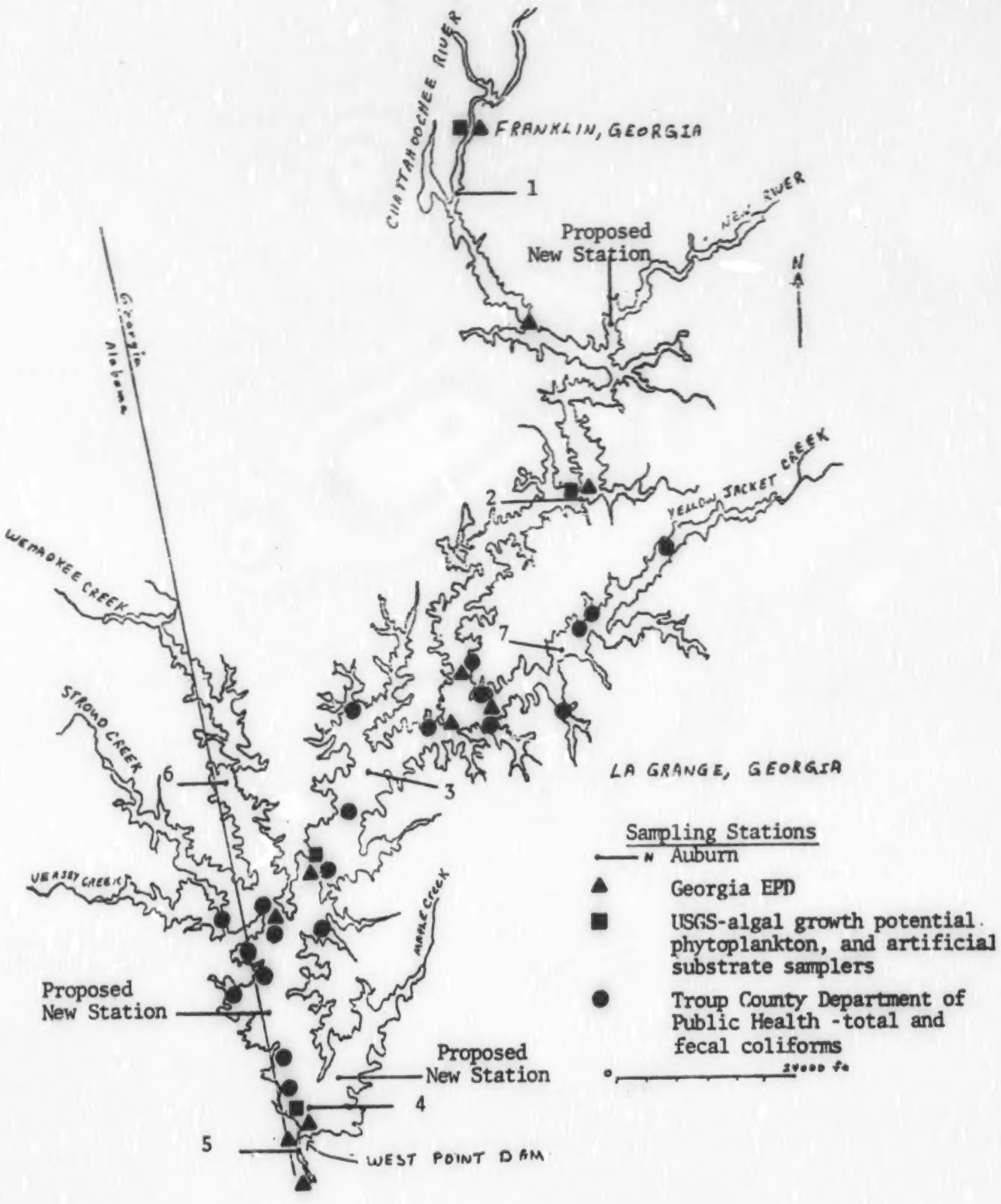
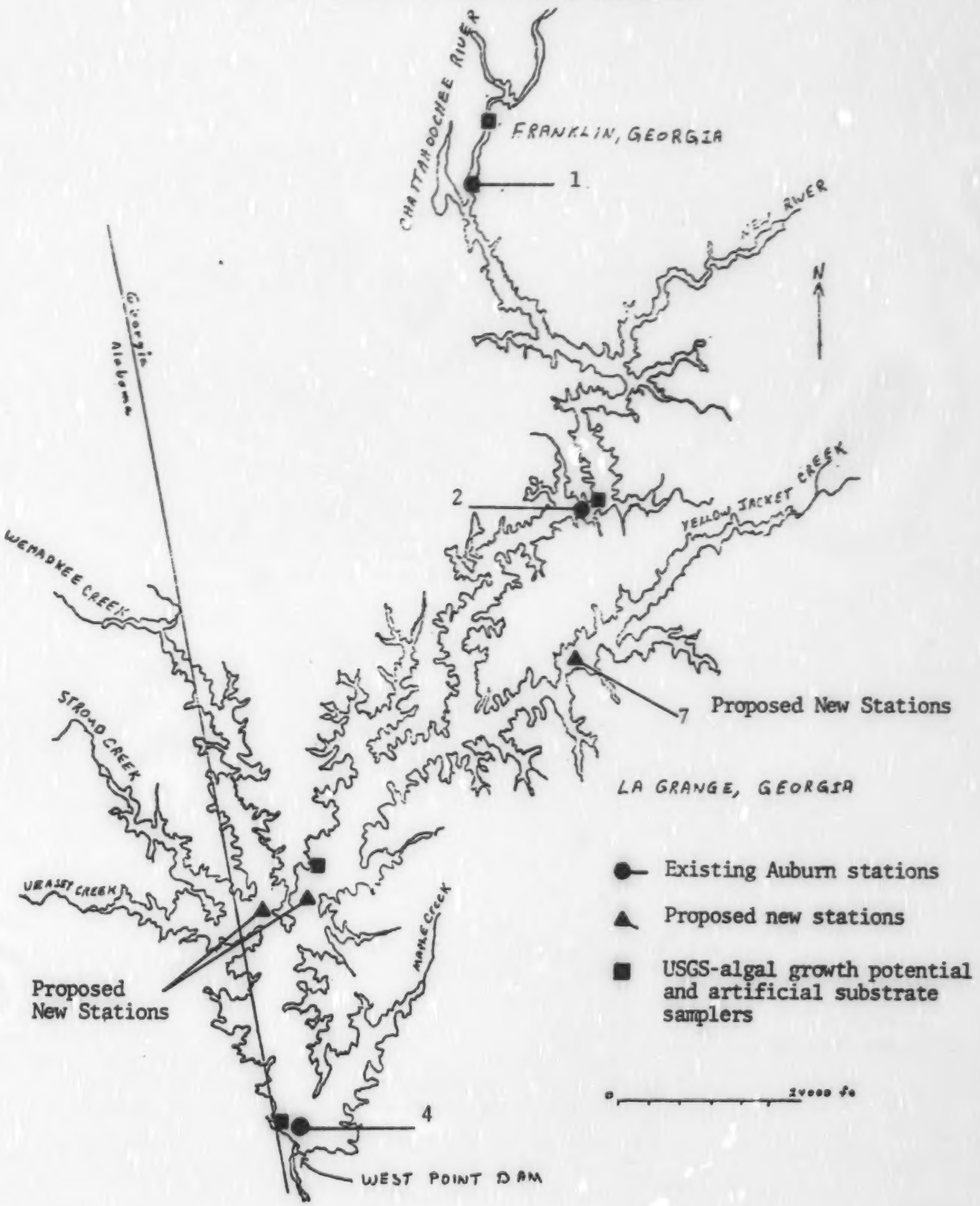


Figure 9. Location of sampling stations on West Point Lake, Primary production and related variables.



station. This could be done quickly with an instrument such as a Yellow Springs Temperature-Oxygen Meter.

It is also proposed that heavy metals be monitored at the water quality stations at the same frequency (every six weeks) as the other water quality variables. Presently, no one is looking at heavy metals in West Point. This is with the exception of Auburn's work which is considering iron and manganese only under conditions of low oxygen conditions during periods of stratification. USGS is presently monitoring a spectrum of metals at a station 20 miles above the uppermost reach of West Point. The information at this station plus the addition of metal monitoring in West Point would provide a basis for defining heavy metal input to West Point, defining possible problem levels, and determining possible movement of these metals through the reservoir itself. Metals that would be monitored are: Fe, Mn, Cu, Zn, Cr, Cd, Ni, Pb, Al, and Hg. The monitoring of Cr and Al would be very important since an aluminum plant is located at Franklin (U. S. Army Engineer District, Savannah, 1974).

As has been indicated above, data requirements of the EPAECO and WQRRS models were taken into consideration in the evaluation of the West Point Research Program. All data being gathered and the proposed expansion is compatible with these models. However, three varibles entering into both models are not being addressed: BOD, biomass of benthic organisms, and organic sediments. These variables were considered; however, the West Point Research Program has not been set up to specifically utilize any water quality model, its primary objective is to develop a fisheries management program for West Point. The incorporation of these three variables, particularly measurements on the benthos, would require a much

larger funding and manpower effort which would probably not be within the limitations of funding anticipated for the West Point Study.

In summary, based upon the present information on research that is being conducted in West Point Reservoir and the principal objectives of the West Point Fisheries and Limnological Study, it is proposed that the fisheries program as outlined in Auburn's scope of work be continued and that the limnological program as outlined in Auburn's scope of work be expanded as described above. It is also proposed that the entire West Point Fisheries and Limnological Study be continued in the expanded version throughout the duration of the program. Any further reduction or expansion of the study should be based on a thorough technical evaluation of the results of the data collected to date. This evaluation should be conducted on a yearly basis at a minimum.

It is also recommended that Auburn University as well as any other contractors involved in the West Point Fisheries and Limnological Studies be encouraged to exchange data and information with other researchers in West Point, and utilize data and information resulting from the efforts of other researchers where appropriate.

Program Schedule

The Fisheries and Limnological Research Program on West Point Reservoir is divided into a first year pilot phase (Phase I), an extension of the pilot phase through the second year, and an eight year period established according to the proposed expansion. Figure 10 indicates the milestones of the program.

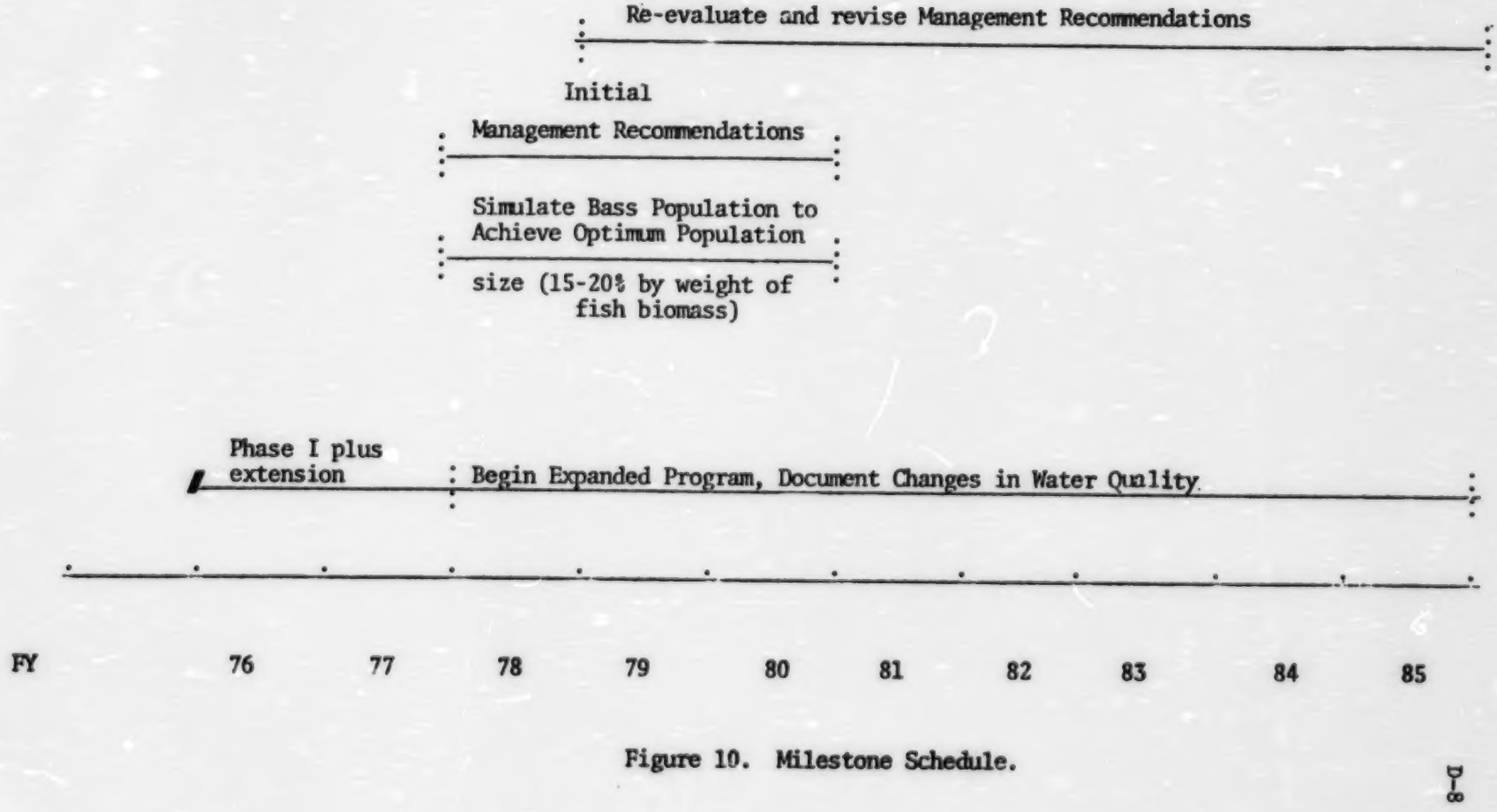
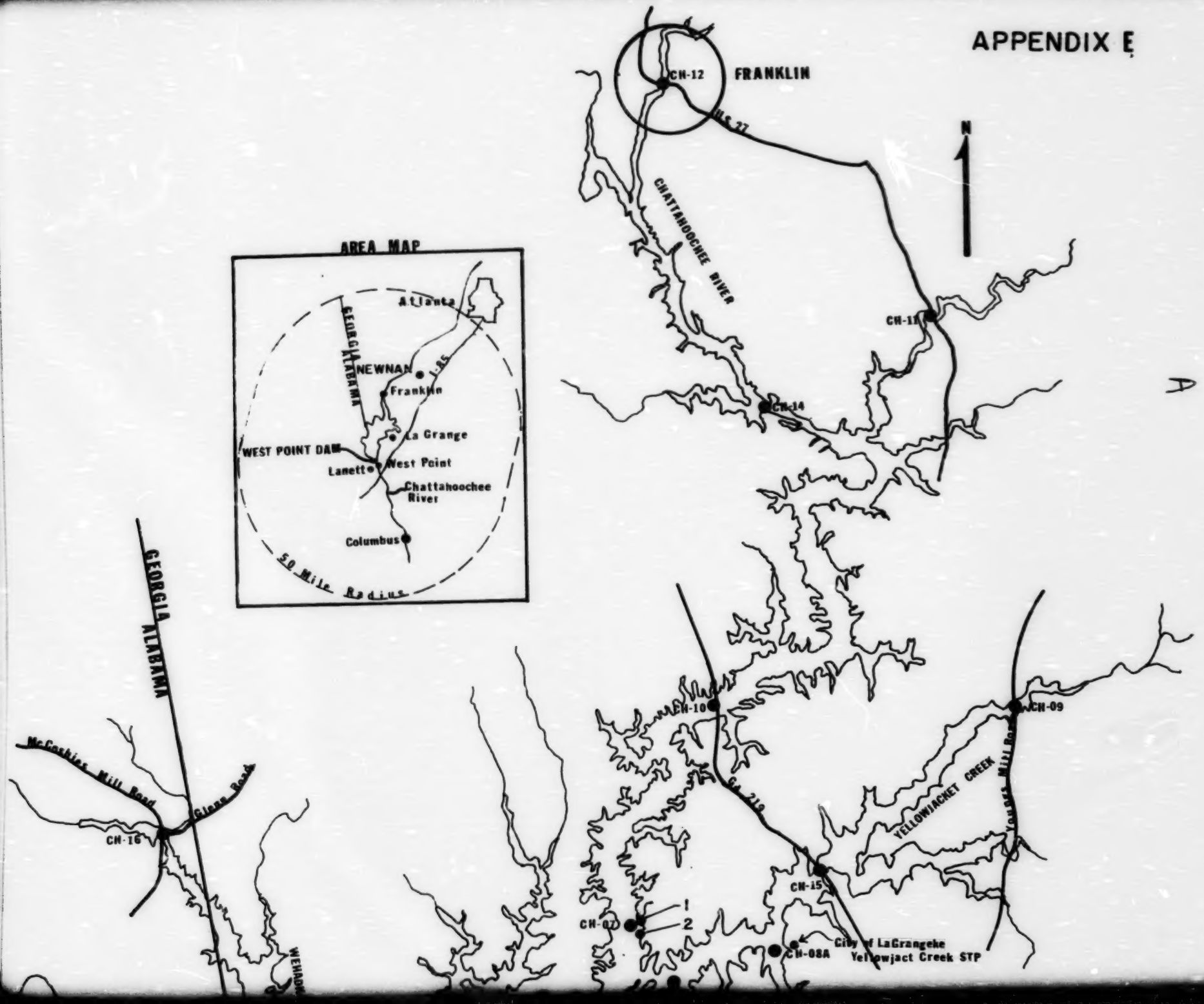


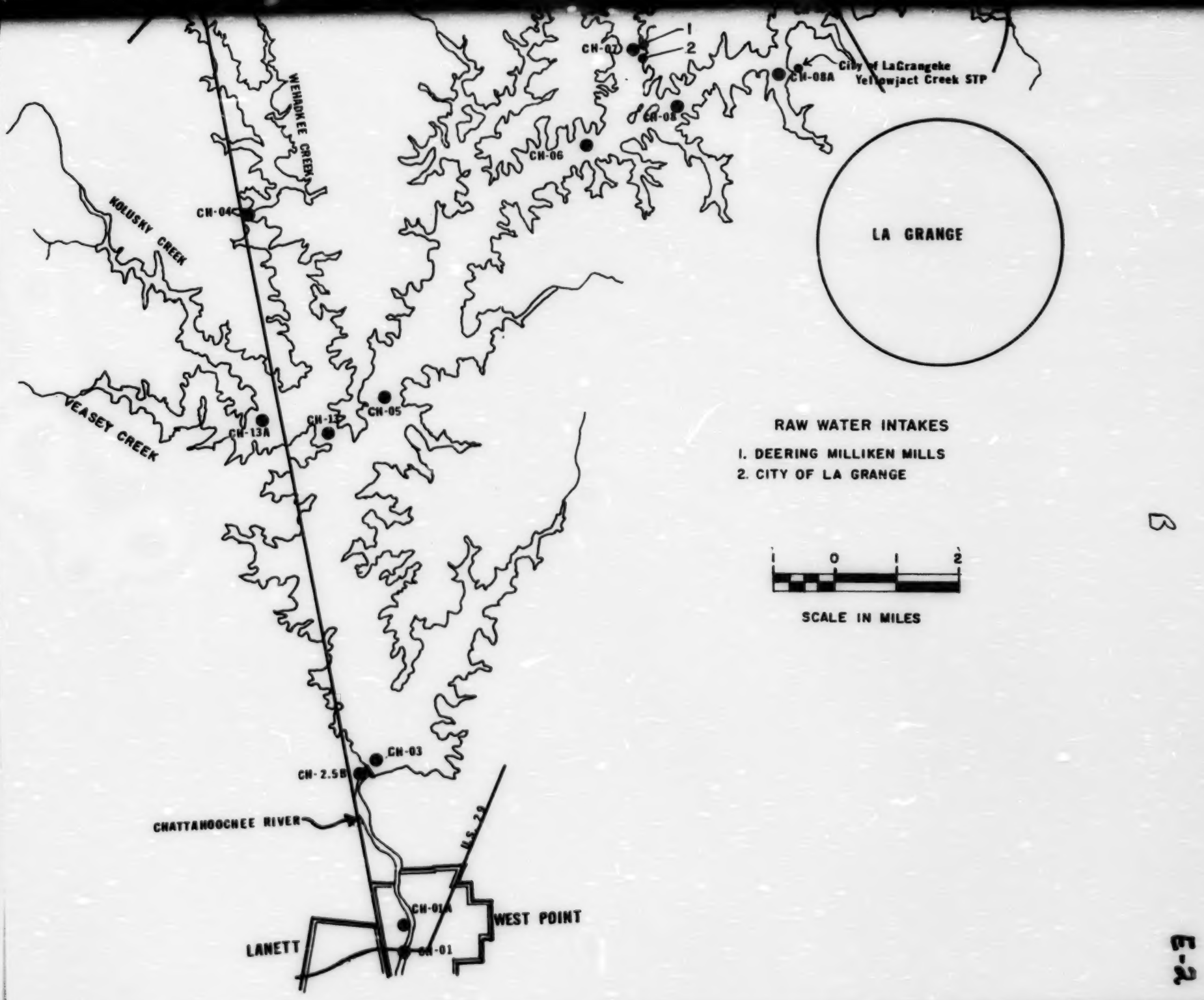
Figure 10. Milestone Schedule.

APPENDIX E

Area and Sampling Station Location Map

APPENDIX E


CH-12
FRANKLIN
US 27
N
CHATTAHOOCHEE RIVER
CH-11
CH-14
AREA MAP
Atlanta
GEORGIA
ALABAMA
NEWNAN
I-85
Franklin
La Grange
WEST POINT DAM
Lanett
West Point
Chattahoochee River
Columbus
50 Mile Radius
GEORGIA
ALABAMA
McCoskies Mill Road
Glass Road
CH-16
CH-10
CH-09
SR 219
YELLOWJACKET CREEK
CH-15
CH-07
1
2
CH-08A
City of LaGrangeke
Yellowjact Creek STP


CH-07
1
2
CH-08A
City of LaGrangeke
Yellowjact Creek STP
CH-08
CH-06
WEHADKEE CREEK
KOLUSKY CREEK
CH-04
LA GRANGE
VEASEY CREEK
CH-13A
CH-12
CH-05
RAW WATER INTAKES
1. DEERING MILLIKEN MILLS
2. CITY OF LA GRANGE
1 0 1 2
SCALE IN MILES
CH-03
CH-2.5B
CHATTAHOOCHEE RIVER
U.S. 29
CH-01A
WEST POINT
LANETT
CH-01

B

E-2

PARTICIPATING STAFF

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